Vertical Condensing Unit

Models:

MVCU 025 A
MVCU 030 A
MVCU 035 A
MVCU 040 A
MVCU 050 A
MVCU 060 A

McQuay® Air Conditioning

Engineered for flexibility and performance.™

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Nomenclature

Indoor Unit

M		WM	025	G	

Brand	
M	: McQuay

Refrigerant	
“ ”	: Omitted if R22
4	: R407C
5	: R410A

Model Name	
WM	: Wall Mounted
CM	: Ceiling Convertible
CK	: Ceiling Cassette
CC	: Ceiling Concealed

Capacity Index	
025	: 25,000 Btu/h

Series	
G	: G Series

Model Type	
“ ”	: Omitted if cooling only
R	: Heatpump

Outdoor Unit

M		VCU	025	A	

Brand	
M	: McQuay

Refrigerant	
“ ”	: Omitted if R22
4	: R407C
5	: R410A

Model Name	
VCU	: Vertical Condensing Unit

Capacity Index	
025	: 25,000 Btu/h

Series	
A	: A Series

Model Type	
“ ”	: Omitted if cooling only
R	: Heatpump

Product Line-Up

Indoor Unit
MWM

MWM		Nomenclature	Classification																				
			PCB		Handset			FIN			Refrigerant Control		Air Purification			Marking		Others						
			L2		G17			Hydrophilic Coated			External Assembly Orifice Kit		Air Filter	Nano Coated Filter	Negative Ion	CE		Auto Air Swing	Grille A				
COOLING ONLY	025G	ACIAE	X		X			X						X	X	X		X	X				
	030F	AFBF	X		X			X			X		X			X		X					

Indoor Unit
MCM

MCM		Nomenclature	Classification																				
			PCB		Handset			FIN			Refrigerant Control		Air Purification			Marking		Others						
			L2		G17			Bare			Cap Tube		Air Filter			CE		Auto Air Swing		Convertible				
COOLING ONLY	025D	AFCH	X		X			X					X			X								
	030D	AFDH	X		X			X			X		X			X		X		X				
	040D	AFDH	X		X			X			X		X			X		X		X				
	050D	AFDH	X		X			X			X		X			X		X		X				
	062C	AFAH	X		X			X			X		X			X								

Indoor Unit
MCK

MCK		Nomenclature	Classification																		
			PCB		Handset			FIN			Refrigerant Control		Air Purification			Marking		Others		
			L2		G17			Hydrophilic Coated	Bare		Cap Tube		Air Filter			CE		Auto Air Swing		
COOLING ONLY	025A	AFBB	X		X				X				X			X		X		
	030A	AFBB	X		X				X		X		X			X		X		
	040A	AFBB	X		X			X			X		X			X		X		
	050A	AFBB	X		X			X			X		X			X		X		

Indoor Unit
MCC

MCC		Nomenclature	Classification																		
			PCB		Handset			FIN			Refrigerant Control		Air Purification			Marking		Others				
			L2		SLM 3	Netware 3		Bare			Cap Tube		Air Filter			CE		EPS Drain Pan	Built-in Filter Rail	Low Static		
COOLING ONLY	025C	AFDC	X		X			X					X			X		X				
		AFDD	X			X		X					X			X		X				
		AFLB	X		X			X					X			X		X		X		
	030C	AFBC	X		X			X			X		X			X			X			
		AFCD	X			X		X			X		X			X			X			
		AFLB	X		X			X			X		X			X			X	X		
	040C	AFBC	X		X			X			X		X			X			X			
		AFCD	X			X		X			X		X			X			X			
		AFLB	X		X			X			X		X			X			X	X		
	050C	AFBC	X		X			X			X		X			X			X			
		AFCD	X			X		X			X		X			X			X			
		AFLB	X		X			X			X		X			X			X	X		
	060C	AFBC	X		X			X			X		X			X			X			
		AFCD	X			X		X			X		X			X			X			
		AFLB	X		X			X			X		X			X			X	X		

Outdoor Unit
MVCU

MVCU		Nomenclature	Classification															
			Refrigerant Control		FIN			Compressor		Safety Devices							Marking	
			Cap Tube	TXV	Gold Coated	Bare		Scroll	Rotary	Contactor	High Pressure Switch	Low Pressure Switch					CE	
COOLING ONLY	025A	ABAA	X			X			X									
		ABAB	X		X				X									
	030A	ABAA				X		X		X	X	X						
		ABAB			X			X		X	X	X						
		FBAB				X		X		X	X	X						
		FBAC			X			X		X	X	X						
	035A	ABAA				X		X		X	X	X						
		ABAB			X			X		X	X	X						
		FBAB				X		X		X	X	X						
		FBAC			X			X		X	X	X						
	040A	FBAB				X		X		X	X	X						
		FBAC			X			X		X	X	X						
	050A	FBAB				X		X		X	X	X						
		FBAC			X			X		X	X	X						
	060A	FBAB				X		X		X	X	X						
		FBAC			X			X		X	X	X						

Features

Self Diagnosis

The micro processor provides the possibility to detect and diagnose any fault or malfunction that occurs in the system. The error will be reflected by the blinking of the LED lights.

Auto-Random Restart

Auto random restart function allows the unit to automatic restart as the last setting condition when the power supply is resumed after power failure. However, the compressor will restart randomly if more than one unit is installed and sharing the same phase of power.

Vertical Air Discharge

Better air distribution through vertical hot air discharge which helps to increase the efficiency of heat exchange.

Wide Choice of Indoor Units

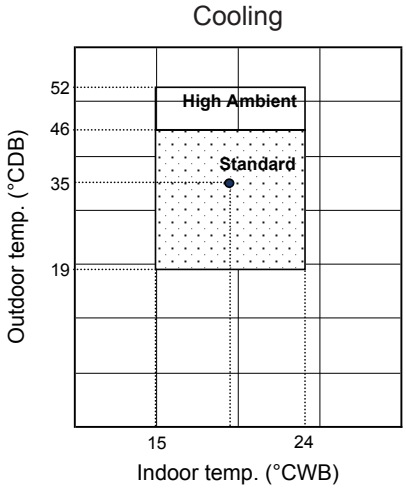
It can be coupled with:
- Wall mounted split unit
- Ceiling cassette split unit
- Ceiling convertible split unit
- Ceiling concealed split unit

Application Information

Operating Range

Ensure the operating temperature is in allowable range.

Cooling only



⚠ Caution :

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

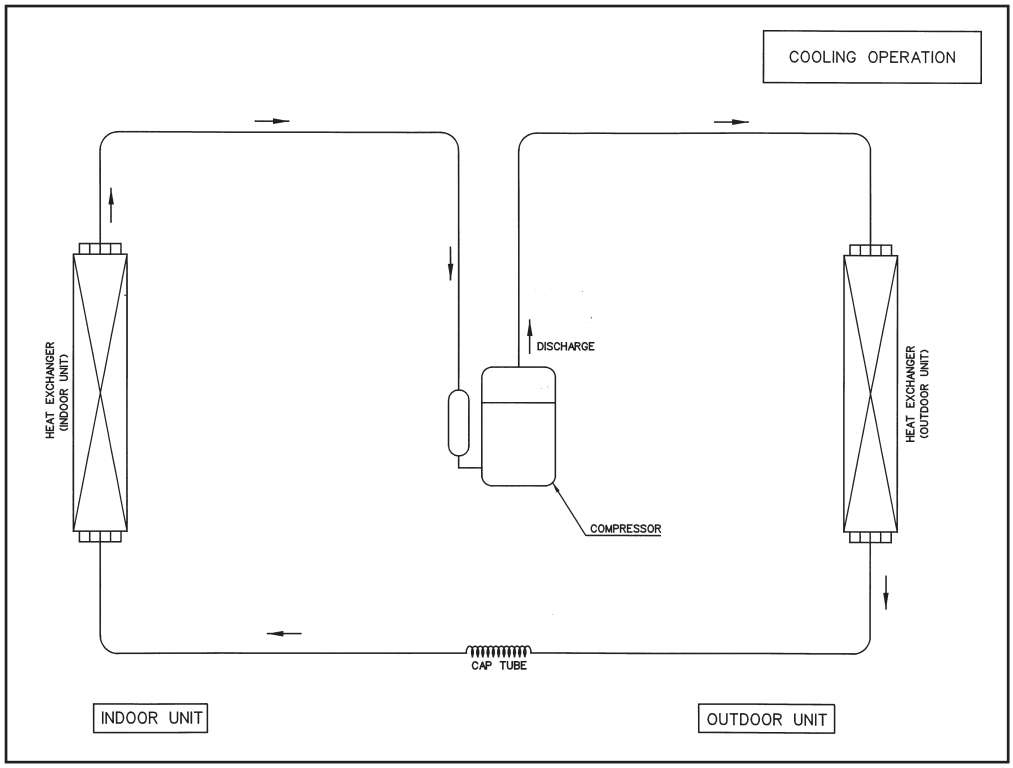
Note :

Standard operating range

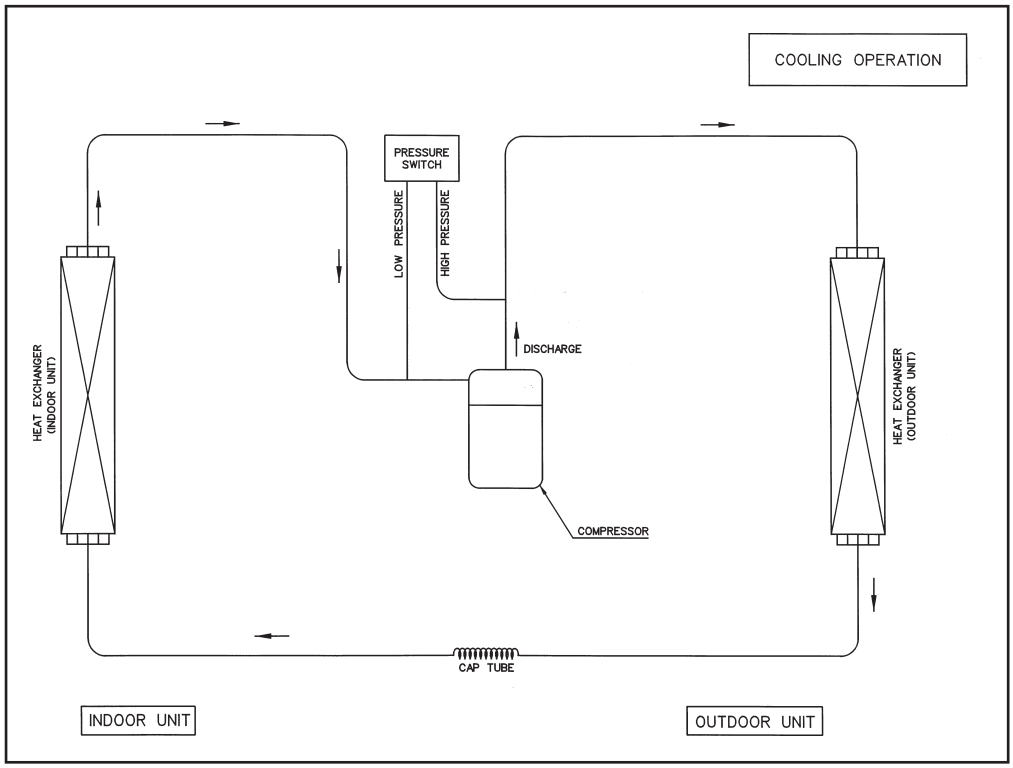
With High Ambient Unit

Refrigerant Circuit Diagram

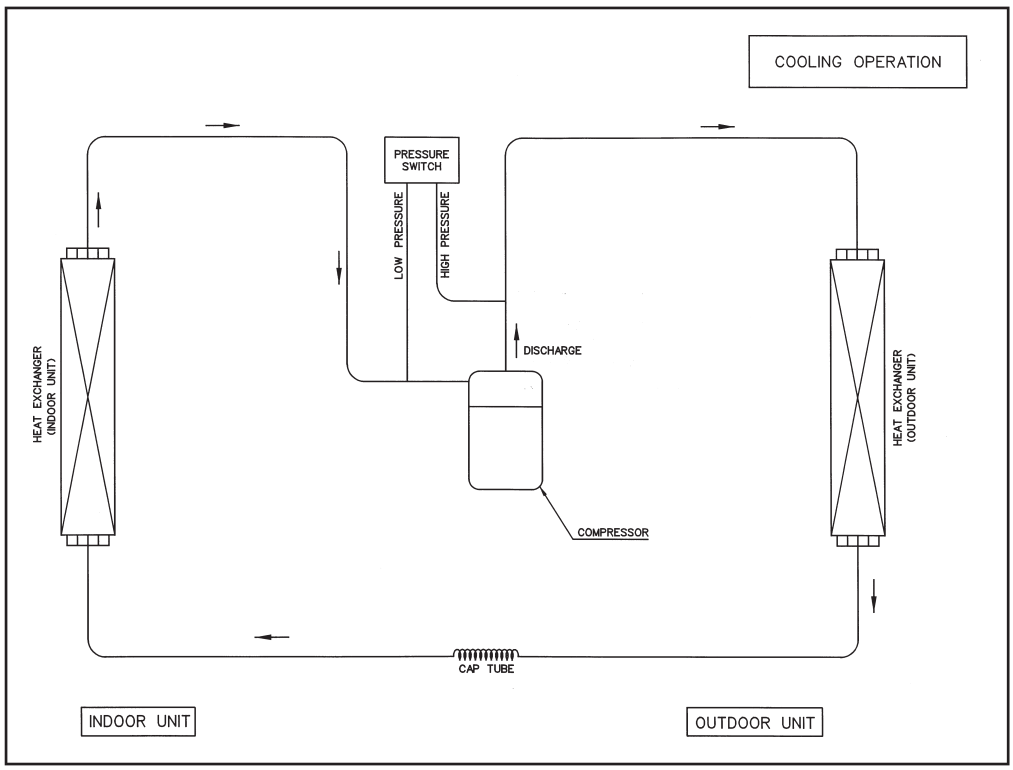
Model: MWM025G – MVCU025A **MCM025D – MVCU025A**
MCK025A – MVCU025A **MCC025C – MVCU025A**



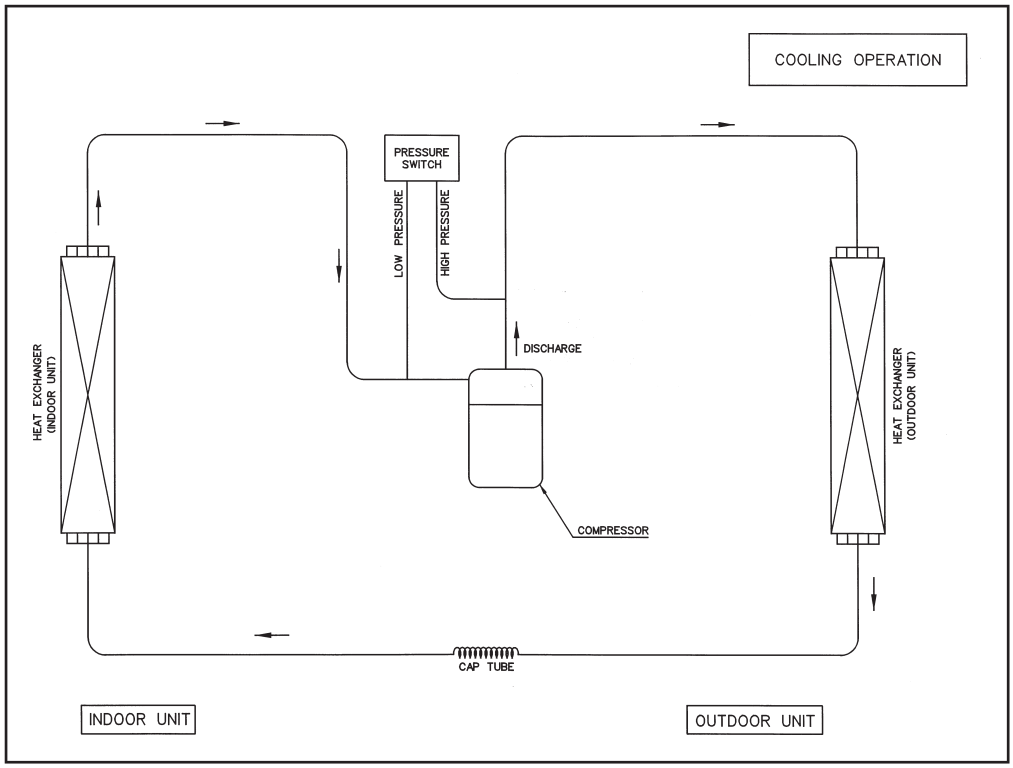
Model: MWM030F – MVCU030A **MCM030D – MVCU030A**
MCK030A – MVCU030A **MCC030C – MVCU030A**
MCM040D – MVCU035A **MCK040A – MVCU035A**



Model: MCC040C – MVCU035A
MCK040A – MVCU040A
MCM040D – MVCU040A
MCC040C – MVCU040A

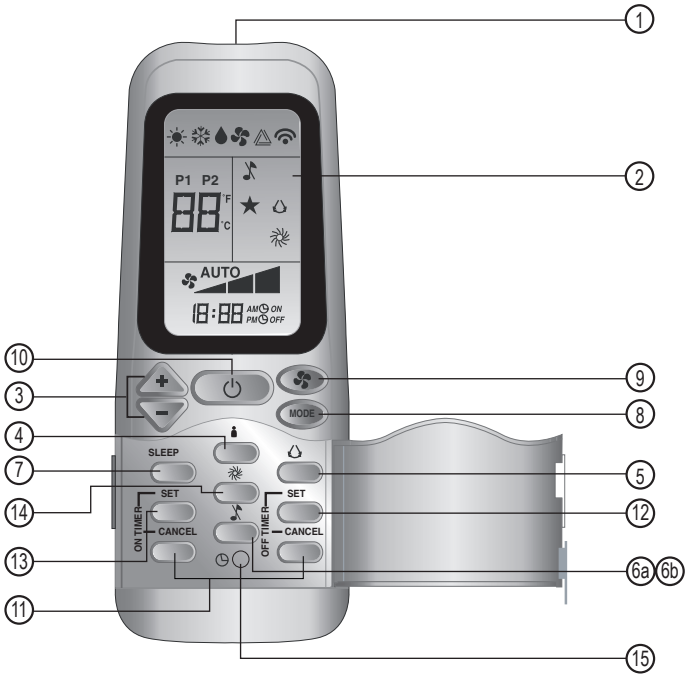


Model: MCM050D – MVCU050A
MCC050C – MVCU050A
MCC060C – MVCU060A
MCK050A – MVCU050A
MCM062C – MVCU060A



Controller

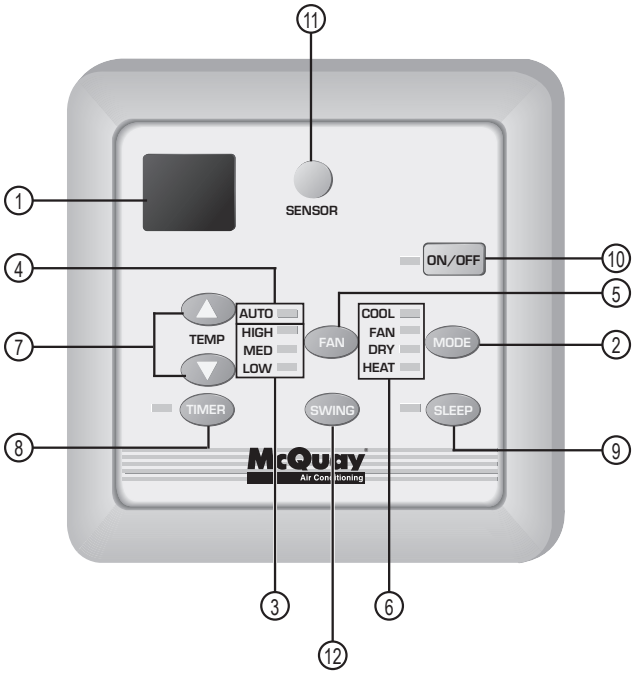
G17



Operation Guide

1	**Transmission Source** • The source where the signal will be transmitted.
2	**Signal Transmission Indication** • Blink to confirm that the last setting has been transmitted to the unit.
3	**Temperature Setting** • To set the desired room temperature, press the ▲ or ▼ button to increase orde crease the set temperature. • The temperature setting range is from 16°C to 30°C (optional setting 20°C to 30°C).
4	**Personalize Setting** • Press and hold for 3s, then will blink. Press again to cycle between and • Set the desire setting, then leave the hand set for 4s without pressing any key and it will save the setting into the programme. • Press once to activate the P1 setting, press again to cycle between P1 and P2. • Press any key to deactivate the personalize setting.
5	**Automatic Air Swing (optional)** • Press the SWING button to activate the automatic air swing function. • To distribute the air to a specific direction, press the SWING button and wait until the louver move to the desired direction and press the button once again.
6	**Silent Function** • Press for quiet operation. • Fan speed turn to minimum speed. • Press again to deactivate the function.
7	**Sleep Mode Setting** • Press the SLEEP button will activate the sleep mode function. This function is available under COOL, HEAT and AUTO mode. • When the unit is operating under cooling mode, the set temperature is increased by 0.5°C after 30 minutes, 1°C after an hour, and 2°C after 2 hours. • When the unit is operating under heating mode, the set temperature is decreased by 1°C after 30 minutes, 2°C after an hour, and 3°C after 2 hours.
8	**Operating Mode** • Press the MODE button to select the type of operating mode. • For cooling only unit, the available modes are: COOL (❄), DRY (💧) and FAN ().
9	**Fan Speed Selection** • Press the button continuously will toggle the fan speed in the following order: Low → Med → High → Auto • Stop pressing when the desired fan speed appears on the display screen.
10	**"ON/OFF" Button** • Press one to start the air conditioner unit. • Press again to stop the unit.
11	**Timer Cancel** • Press the TIMER CANCEL button to cancel the on timer setting.
12	**OFF Timer Setting** • Press the OFF TIMER button will activate the off timer function. • Set the desired off time by pressing the OFF TIMER button continuously.
13	**ON Timer Setting** • Press the ON TIMER button will activate the on timer function. • Set the desired on time by pressing the ON TIMER button continuously. If the timer is set to 7.30am, the air conditioner will turn on at 7.30am sharp.
14	**Turbo Function** • Press for fast cooling. • Fan speed turn to maximum speed. • Press again to deactivate the function.
15	**Clock Time Setting** • Press and hold to set the clock time.

SLM



Operating Instruction

1	**Temperature (Seven Segments)** • To indicate the ambient temperature set by the user.
2	**Mode** • To indicate the selected operating mode: HEAT & DRY / COOL / FAN (LED green / yellow / red).
3	**Ventilation Speed** • To indicate the selected ventilation speed: LOW / MED / HIGH. • For U1-SB125 only have single speed: HIGH.
4	**Auto Selection** • Automatic selection for speed, whereby the speed is automatically adjusted according to the room temperature.
5	**Fan and Ventilation Mode** • Press the fan button to set the desired selection.
6	**Operation Selection Mode** • Press the mode button to select the type of operation mode. • Cooling unit: COOL, DRY, FAN. • Heat pump unit: AUTO, COOL, DRY, FAN, HEAT.
7	**Temperature Setting** • Set the desired temperature. • Press ▲ or ▼ button to increase or decrease the set temperature. The setting range is between 16°C to 30°C (60°F to 80°F).

7	**Temperature Setting** • Set the desired temperature. • Press ▲ or ▼ button to increase or decrease the set temperature. The setting range is between 16°C to 30°C (60°F to 80°F).
8	**Timer Switch Setting** • Press the set button to activate the switch timer of the air conditioner unit (the setting range is between 1 to 10 hours). The unit will be at ON or OFF state in function of operating mode.
9	**“SLEEP” Function** • Press the sleep button to select the sleep function. This function cannot be selected if the air conditioner unit is operating under FAN mode only or dry mode. For SLEEP function operating under COOL mode, the setting temperature increases to 0.5°C after 30 minutes, 1°C after 1 hour and 2°C after 2 hours.
10	**“ON/OFF” Switch** • Press once, the air conditioner unit starts. • Press again, the air conditioner unit stops.
11	**IR Receiver**
12	**Automatic Air Swing (Optional)** • Press the SWING button to activate the automatic air swing function. • To distribute the air to a specific direction, press the button and wait until the louver move to the desired direction and press the SWING button once again.

Installation Guideline

Safety Precautions

⚠ WARNING

- Installation and maintenance should be performed by qualified persons who are familiar with local code and regulation, and experienced with this type of appliance.
- All field wiring must be installed in accordance with the national wiring regulation.
- Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work according to the wiring diagram.
- The unit must be GROUNDED to prevent possible hazard due to insulation failure.
- All electrical wiring must not touch the refrigerant piping or any moving parts of the fan motors.
- Confirm that the unit has been switched OFF before installing or servicing the unit.
- Disconnect from the main power supply before servicing the air conditioner unit.
- DO NOT pull out the power cord when the power is ON. This may cause serious electrical shocks which may result in fire hazards.
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1m from TVs and radios, to prevent distorted pictures and static. {Depending on the type and source of the electrical waves, static may be heard even when more than 1m away}.

⚠ CAUTION

Please take note of the following important points when installing.

- **Do not install the unit where leakage of flammable gas may occur.**

  If gas leaks and accumulates around the unit, it may cause fire ignition.
- **Ensure that drainage piping is connected properly.**

  If the drainage piping is not connected properly, it may cause water leakage which will dampen the furniture.
- **Do not overcharge the unit.**

  This unit is factory pre-charged. Overcharge will cause over-current or damage to the compressor.
- **Ensure that the unit's panel is closed after service or installation.**

  Unsecured panels will cause the unit to operate noisily.
- **Sharp edges and coil surfaces are potential locations which may cause injury hazards. Avoid from being in contact with these places.**
- **Before turning off the power supply, set the remote controller's ON/OFF switch to the "OFF" position to prevent the nuisance tripping of the unit.** If this is not done, the unit's fans will start turning automatically when power resumes, posing a hazard to service personnel or the user.
- **Do not operate any heating apparatus too close to the air conditioner unit.** This may cause the plastic panel to melt or deform as a result of the excessive heat.
- **Ensure the color of wires of the outdoor unit and the terminal markings are same to the indoors respectively.**
- **IMPORTANT : DO NOT INSTALL OR USE THE**
- **AIR CONDITIONER UNIT IN A LAUNDRY ROOM.**
- **Do not use joined and twisted wires for incoming power supply.**

NOTICE

Disposal requirements

Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste.

Do not try to dismantle the system yourself: the dismantling of the air conditioning system, treatment of the refrigerant, of oil and of other parts must be done by a qualified installer in accordance with relevant local and national legislation. Air conditioners must be treated at a specialized treatment facility for re-use, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information.

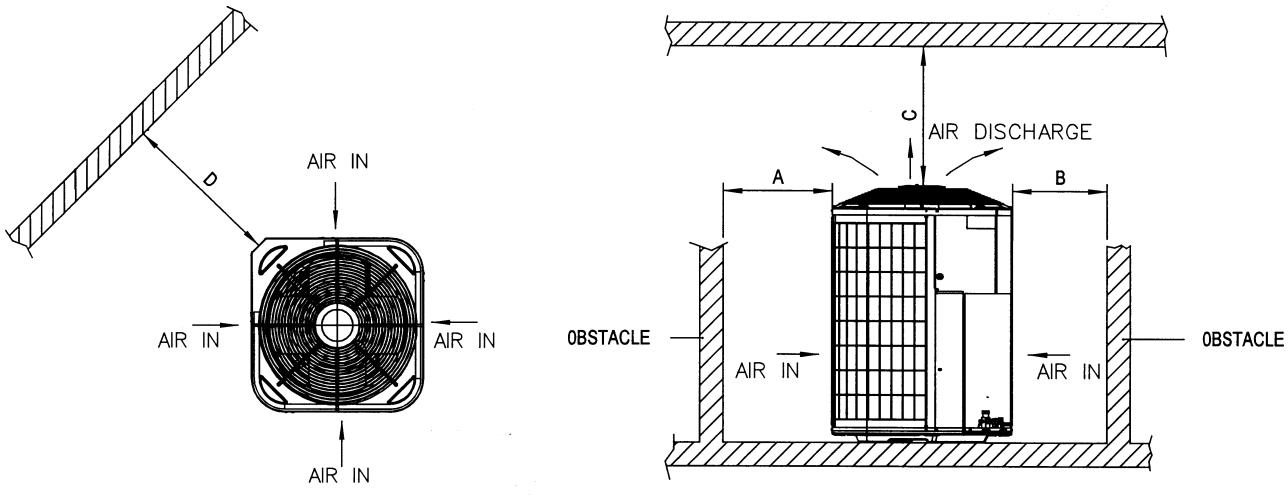
Batteries must be removed from the remote controller and disposed of separately in accordance with relevant local and national legislation.

Installation of Outdoor Unit

- The unit should be installed in accordance with all national and local codes and regulations which govern the installation of this type of equipment.
- The VCU unit must not be installed with any duct work on the air discharge side. The outdoor fan is a propeller type and is not designed to operate against any additional external static.
- The maximum and minimum operating conditions must be observed to assure the system to maximize the capacity with minimum service. Please refer to “Operating Range”.

Installation Clearance

- Outdoor units must be installed such that there is no short circuit of the hot discharge air to obstruction to smooth air flow.



Please allow 610 mm clearance between units for proper air flow.

MODEL	A	B	C	D
All VCUs	305 mm	305 mm	1219 mm	762 mm

Wiring

Electrical Connections

- Wiring regulations on wire diameters differ from country to country. Please refer to your LOCAL ELECTRICAL CODES for field wiring rules. Be sure that installations comply with the rules and regulations.

General Precautions

- Ensure that the rated voltage of the unit corresponds to the name plate before carrying out proper wiring according to the wiring diagram.
- Provide a power outlet to be used exclusively for each unit. A power supply disconnects and a circuit breaker for over-current protection should be provided in the exclusive line.
- The unit must be GROUNDED to prevent possible hazards due to insulation failures.
- All wiring must be firmly connected.
- All wiring must not touch the hot refrigerant piping, compressor or any moving parts of fan motors.

Refrigerant Piping

Piping Length and Elevation

When the pipe length becomes too long, both the capacity and reliability drop. As the number of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the cooling capacity, and as the result the compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated below:

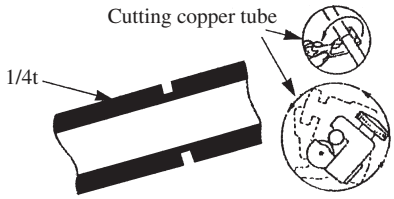
Model / Data	MVCU 025A	MVCU 030A	MVCU 035A / 040A	MVCU 050A	MVCU 060A
Max. Length, L	15m	35m	35m	35m	35m
Max. Elevation, H	8m	10m	10m	10m	20m
Max. No. of bends	10	10	10	10	10

* Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance

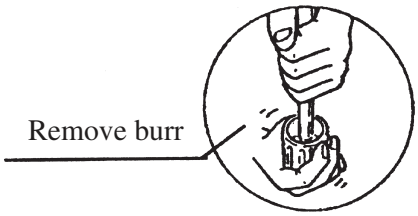
Remark: The refrigerant pre-charged in the outdoor unit is for piping length up to 7.6m/25ft.

Piping Works

- Do not use contaminated or damaged copper tubing. Do not remove plastic, rubber plugs and brass nuts from the valves, fittings, tubings and coils until you are ready to connect suction or liquid line into valves or fittings.
- If any brazing work is required, ensure that the nitrogen gas is passed through coil and joints while the brazing work is being done. This will eliminate soot formation on the inside walls of the copper tubings.
- Cut the connection pipe with a pipe cutter.

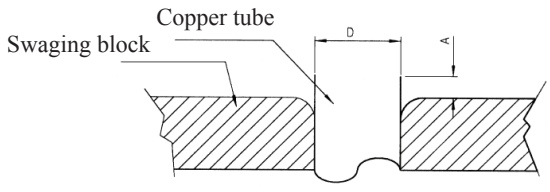


- Remove burrs from cut edges of the pipes with remover. Hold the end of the pipe downwards to prevent metal chips from entering the pipe.



- Insert the flare nuts, mounted on the connection parts of both the indoor unit and outdoor unit onto the copper pipes.
- Flare the pipe with extra length above the flaring tool as shown in the table.
- The flared edge must be even and not cracked or scratched.

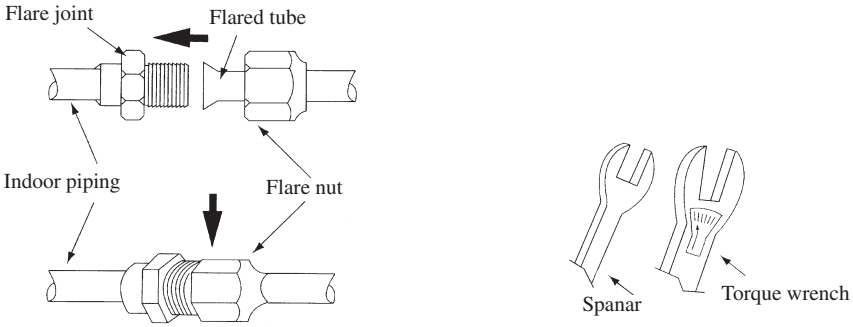
Ø Tube, D (mm / in)	A (mm)	
	Imperial Die	Rigid Die
6.35 / 1/4	1.3	0.7
9.52 / 3/8	1.6	1.0
12.70 / 1/2	1.9	1.3
15.88 / 5/8	2.2	1.7
19.05 / 3/4	2.5	2.0



Piping Connection to the Units

- Align the center of the piping and tighten the flare nut sufficiently with fingers.
- Finally tighten the flare nut with torque wrench unit the wrench clicks.
- When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.

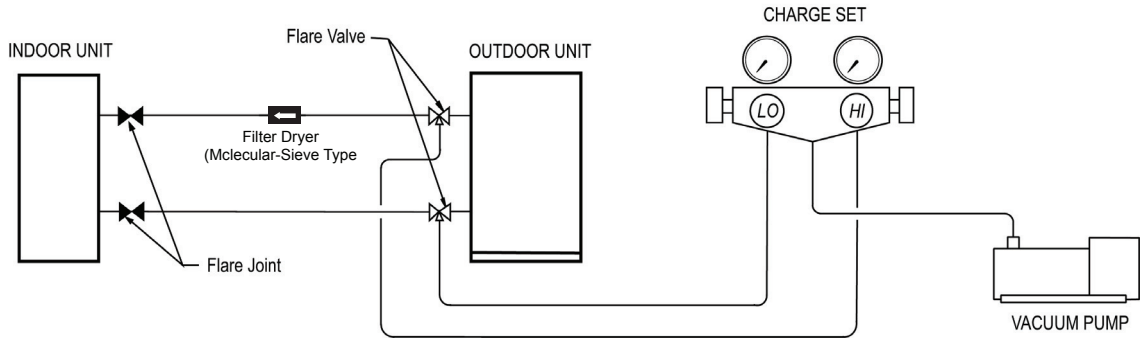
Pipe Size (mm/in)	Torque (Nm)
6.35 (1/4)	18
9.52 (3/8)	42
12.70 (1/2)	55
15.88 (5/8)	65
19.05 (3/4)	78



Vacuuming and Charging

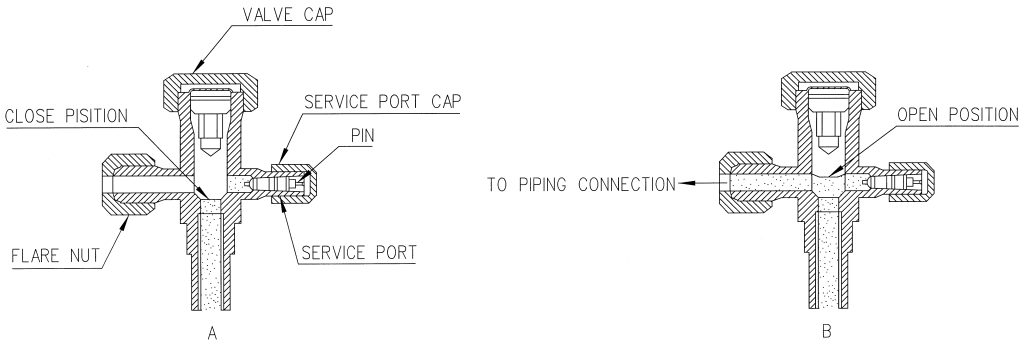
The pre-charged outdoor unit does not need any vacuuming or charging. However once it is connected, the connecting pipe line and the indoor unit need to be vacuumed before releasing the R22/R407C/R410A from the outdoor unit.

1. Open the service port core cap.
2. Connect pressure gauge to the service port.
3. Connect the line to vacuum pump. Open the charging manifold valve and turn the pump on. Vacuum to -0.1 MPa (-760mmHg) or lower. (Evacuation time varies by the pump but averagely in 1 hour).



Note : R22 - Nil
R410A - Nil

4. After evacuation, unscrew the spindle (diagram B) for the gas to run to indoor unit.

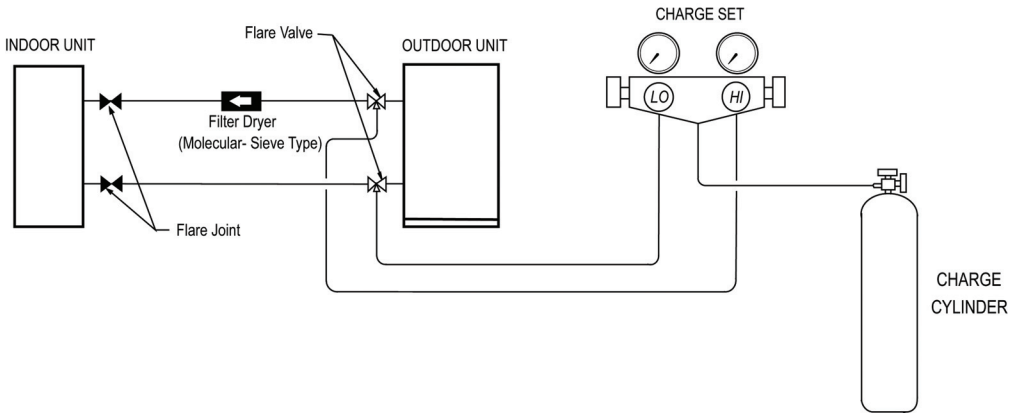


Additional Charge

- The refrigerant gas is charged in the outdoor unit and, if the piping length is 7.6m, additional charge of the refrigerant after vacuuming is not necessary.
- When the piping length is more than 7.6m, additional refrigerant charge (g) per additional 1m length as tabulated:

Outdoor	MVCU025A	MVCU030A	MVCU035/040/050/060A
L=10m	0.290 kg	0.650 kg	0.250 kg
L=15m	0.480 kg	0.900 kg	0.500 kg
L=20m	-	1.150 kg	0.750 kg
L=25m	-	1.400 kg	1.000 kg
L=30m	-	1.650 kg	1.250 kg
L=35m	-	1.900 kg	1.500 kg

Diagram shows typical charging method:



Overall Checking

- Ensure the following, in particular:
  1. The unit is mounted solidly and rigid in position.
  2. Piping and connections are leak proof after charging.
  3. Proper wiring has been done.
- Drainage check – pour some water into drain pan.
- Test run
  1. Conduct a test run after water drainage test and gas leakage test.
  2. Watch out for the following:
     (a) Is the electric plug firmly inserted into the socket?
     (b) Is there any abnormal sound from the unit?
     (c) Is there any abnormal vibration with regard to the unit itself or piping?
     (d) Is there smooth drainage of water?
- Check that:
  1. Outdoor fan is running, with warm air blowing off the outdoor unit (cooling cycle).
  2. Indoor blower is running and discharge cool air (cooling cycle).
  3. Suction (low side) pressure is as per recommendations.
  4. The remote controller has incorporated a 3 minutes delay in the circuit. Thus, it requires about 3 minutes before the outdoor unit can start up.

Standard Operating Condition

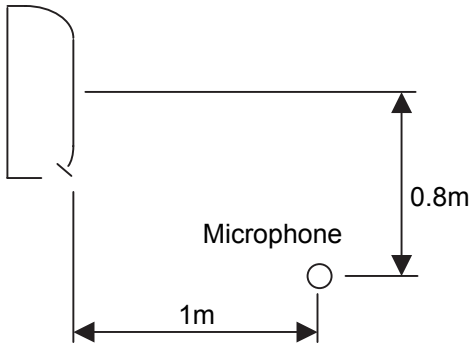
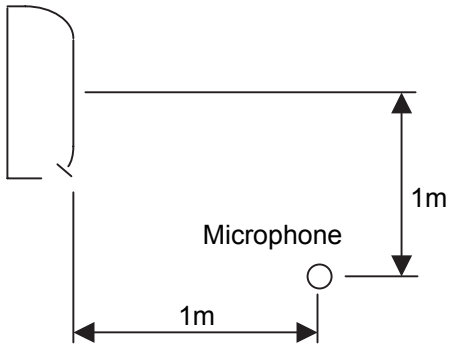
Temperature	Ts °C / °F	Th °C / °F
Minimum indoor temperature	19.0 / 66.2	15.0 / 59.0
Maximum indoor temperature	26.7 / 80.1	24.0 / 75.2
Minimum outdoor temperature	19.0 / 66.2	13.9 / 57.0
Maximum outdoor temperature	52.0 / 125.6	24.0 / 75.2

Sound Data

Sound Pressure Level

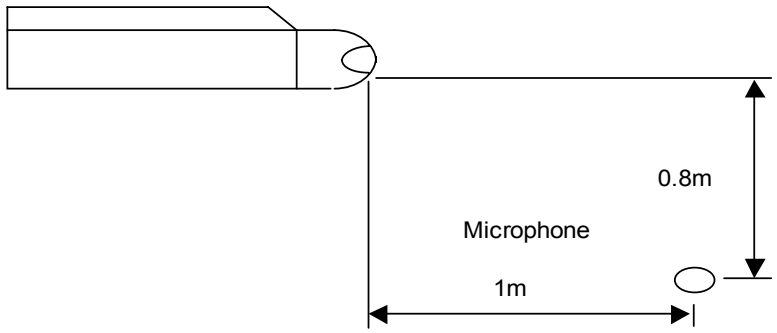
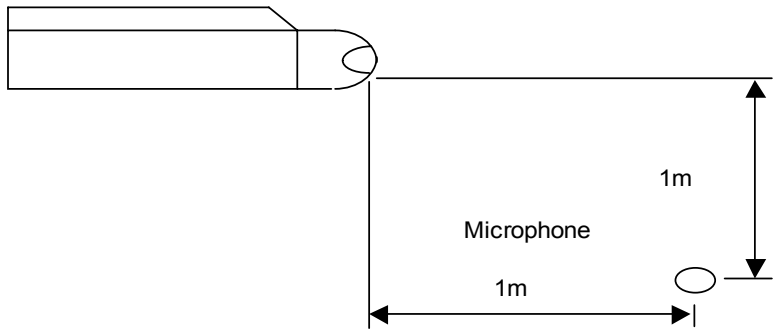
Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20μPa							Overall A (dBA)	Noise Criteria
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz		
MWM025G	High	41	48	47	43	40	32	23	49	43
	Medium	39	44	43	39	35	28	20	44	38
	Low	37	41	40	36	32	25	19	42	35
MWM030F	High	42	46	45	44	41	35	28	49	43
	Medium	40	45	44	43	35	33	27	47	42
	Low	37	43	43	40	35	30	26	45	39

Microphone position: 1m in front and 0.8m below the vertical centre line of the unit. (JIS C 9612)
1m in front and 1m below the vertical centre line of the unit. (JIS C 8615)

Model	Measuring location
MWM025G	 Standard : JIS C 9612
MWM030F	 Standard : JIS C 8615

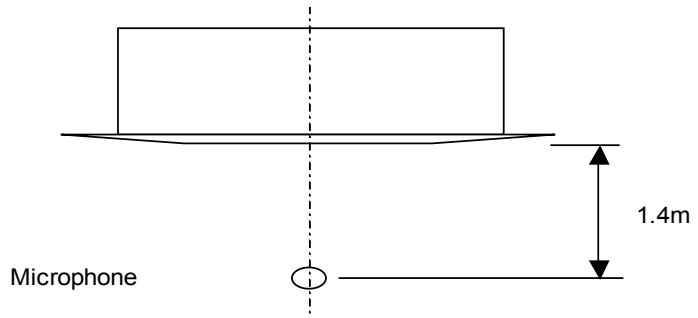
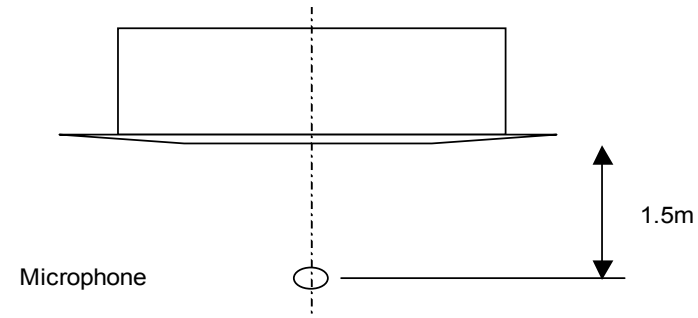
Sound Pressure Level

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20μPa							Overall A (dBA)	Noise Criteria
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz		
MCM025D	High	48	51	51	50	45	41	33	54	49
	Medium	47	50	50	49	44	40	32	53	48
	Low	45	47	48	47	41	36	27	50	46
MCM030D	High	45	48	48	47	43	33	24	51	46
	Medium	44	47	47	46	42	32	23	50	45
	Low	43	45	45	44	39	29	20	48	43
MCM040D	High	51	53	51	50	47	37	30	54	49
	Medium	48	51	50	49	46	36	28	53	48
	Low	46	50	49	48	44	35	27	52	47
MCM050D	High	51	53	51	50	47	37	30	54	49
	Medium	48	51	50	49	46	36	28	53	48
	Low	46	50	49	48	44	35	27	52	47
MCM062C	High	34	45	49	52	49	44	37	56	51
	Medium	32	43	46	49	46	41	33	53	48
	Low	26	36	40	42	38	32	24	46	41

Model	Measuring location
MCM025D	 Standard : JIS C 9612
MCM030D MCM040D MCM050D MCM062C	 Standard : JIS C 8615

Sound Pressure Level

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20μPa							Overall A (dBA)	Noise Criteria
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz		
MCK025A	High	48	46	43	39	33	27	19	45	38
	Medium	45	43	40	35	29	21	15	42	35
	Low	43	42	38	32	27	19	14	40	33
MCK030A	High	50	48	47	43	37	35	28	49	42
	Medium	48	45	43	38	32	31	27	45	38
	Low	46	43	41	35	30	30	26	43	36
MCK040A	High	50	49	49	46	39	38	31	51	45
	Medium	48	47	47	43	36	34	25	48	42
	Low	46	45	46	41	34	30	23	46	41
MCK050A	High	54	52	51	48	43	42	34	53	47
	Medium	52	50	50	46	41	40	32	52	45
	Low	51	49	49	45	39	39	31	50	45

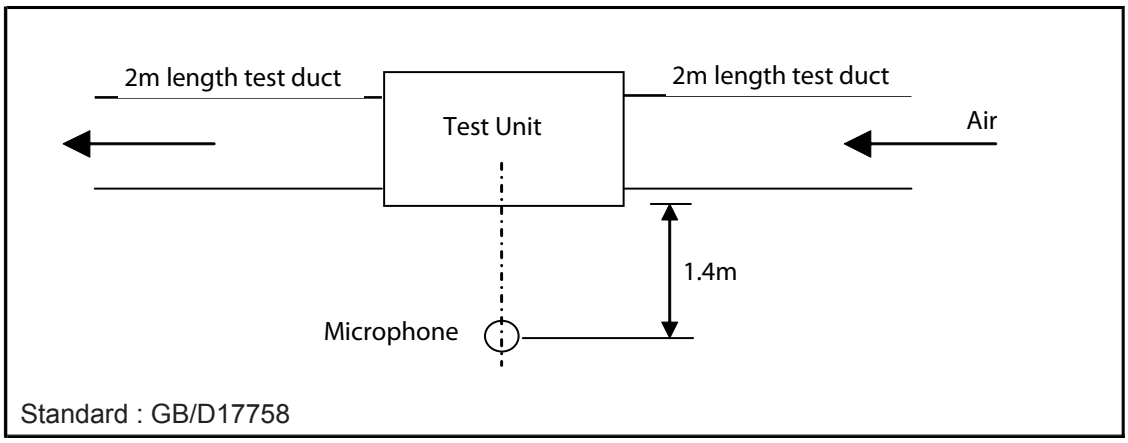
Model	Measuring location
MCK025A	 Standard : JIS C 9612
MCK030A MCK040A MCK050A	 Standard : JIS C 8615

Sound Pressure Level

Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref 20μPa							Overall A (dBA)	Noise Criteria
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz		
MCC025C	High	42	41	37	34	31	29	23	40	33
	Medium	41	40	36	33	29	28	22	39	32
	Low	36	35	33	31	26	27	21	36	30
MCC030C	Super High	54	50	46	45	40	34	30	49	44
	High	50	45	43	42	37	31	26	46	41
	Medium	45	40	40	38	32	26	20	42	37
	Low	42	36	37	33	28	22	15	38	32
MCC040C	Super High	56	49	49	46	41	37	32	51	45
	High	54	47	47	45	39	35	29	49	44
	Medium	49	42	43	41	35	31	24	45	40
	Low	45	39	41	37	30	26	18	41	36
MCC050C	Super High	56	50	50	49	44	38	33	53	48
	High	54	49	49	48	43	37	32	52	47
	Medium	53	47	46	47	40	35	29	50	46
	Low	51	45	44	44	36	32	26	47	43
MCC060C	Super High	57	50	51	51	46	39	35	55	50
	High	55	49	49	50	44	37	33	53	49
	Medium	53	46	47	47	39	34	28	50	46
	Low	51	43	44	43	35	30	24	47	42

Microphone position: 1.4m below the centre of the unit. (GB Standard - GB/D17758)
Tested with 2m length duct at the air discharge outlet and air return inlet.

Measuring location :

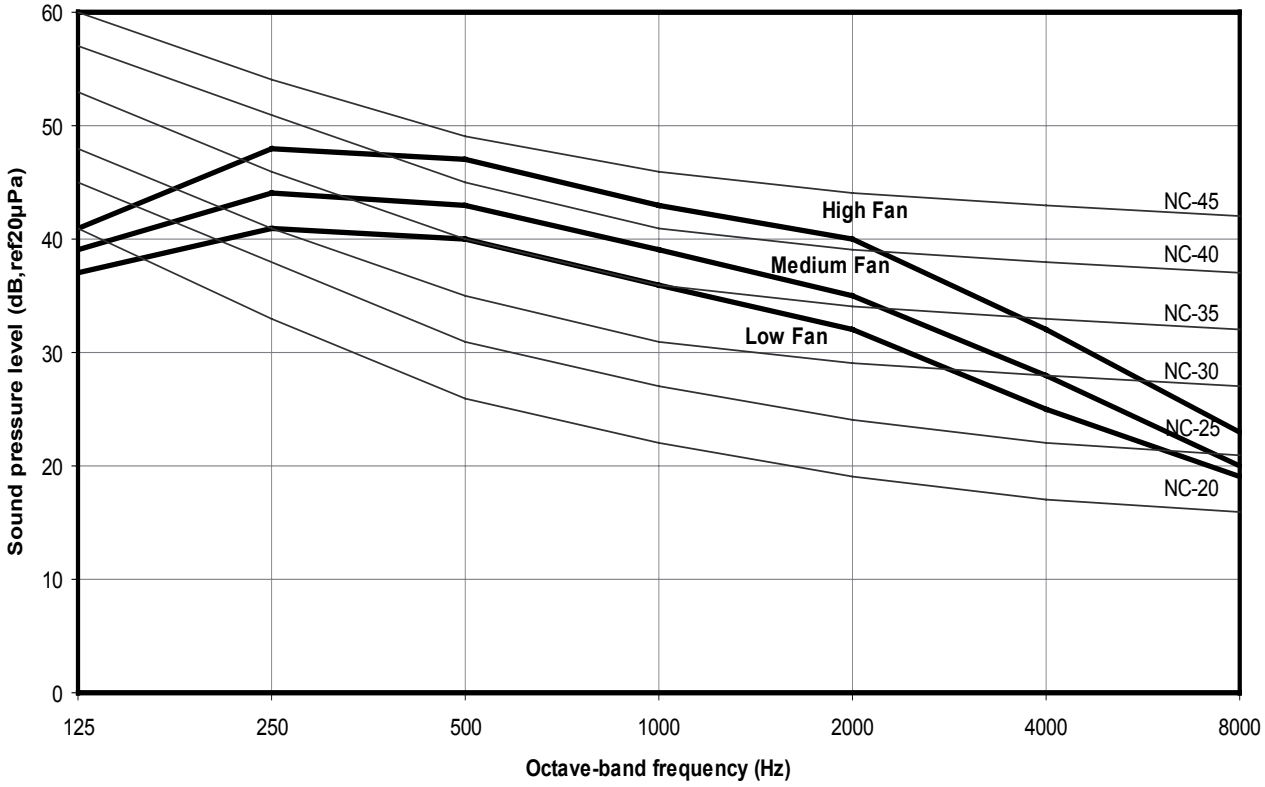


Sound Power Level

Model	Ext. Static (mmAq)	Speed	1/1 Octave A-weighted Sound Power (dB), ref 1pW							Overall A (dBA)
			125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	
MCC025C	5.5	High	63	52	61	62	59	56	53	66
	4	Medium	61	60	59	60	57	53	50	64
	3	Low	58	57	56	57	54	49	47	61
MCC030C	21	Super High	68	69	71	72	69	66	65	76
	17	High	65	66	68	69	65	63	60	73
	13	Medium	61	62	64	65	61	58	55	69
	9	Low	56	58	60	61	57	53	49	64
MCC040C	21	Super High	69	71	72	74	71	68	67	78
	18	High	65	68	70	72	68	66	64	76
	13	Medium	65	65	67	68	64	62	59	72
	9.5	Low	59	61	63	64	60	57	54	68
MCC050C	18	Super High	70	71	73	74	72	69	67	78
	16	High	67	69	71	72	69	66	64	76
	14	Medium	66	66	69	69	66	63	61	73
	11	Low	63	64	66	67	62	60	57	70
MCC060C	18	Super High	70	71	73	75	73	70	68	79
	16	High	69	70	72	74	71	69	68	78
	14	Medium	69	68	70	71	67	65	63	75
	10	Low	64	65	67	67	63	61	59	71

Duct Discharge Sound Power Level: Test with 5ft length discharge duct, terminated flush with internal wall of reverberation room.

MWM025G
NC CURVES



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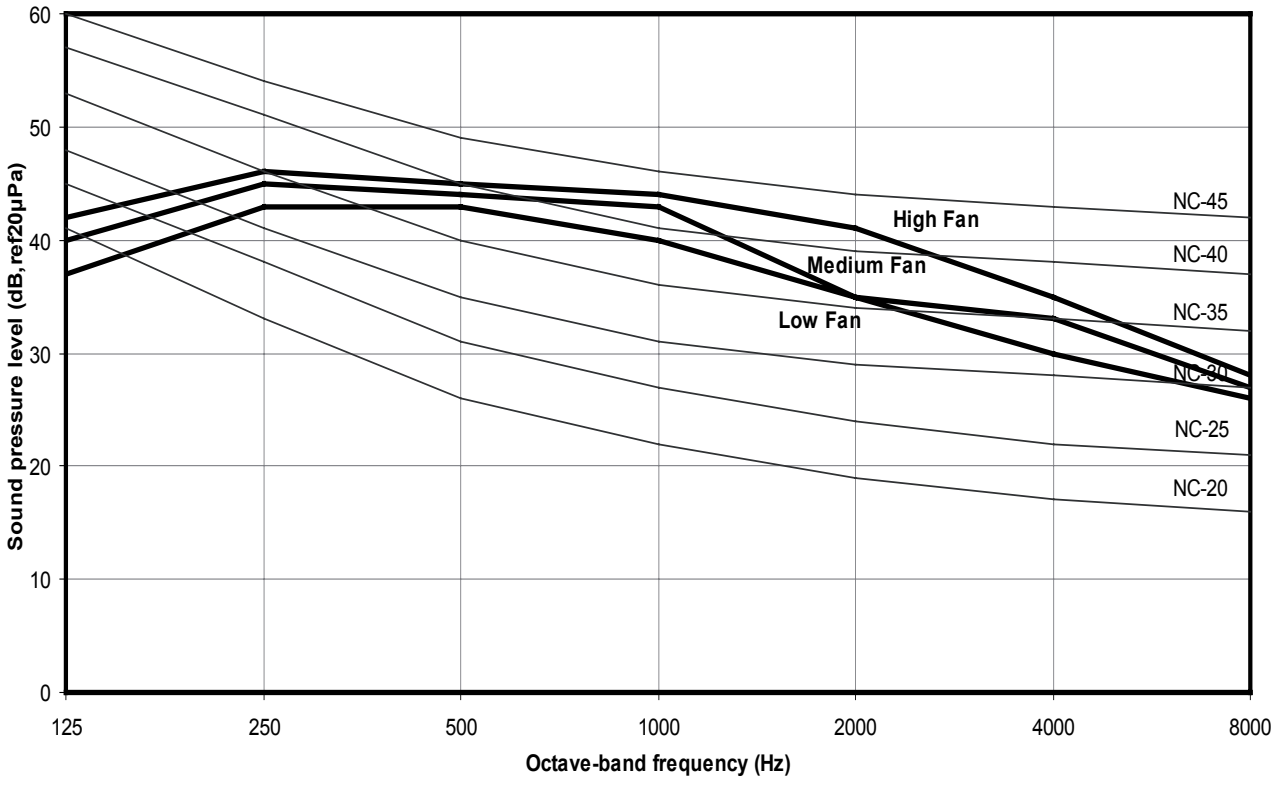

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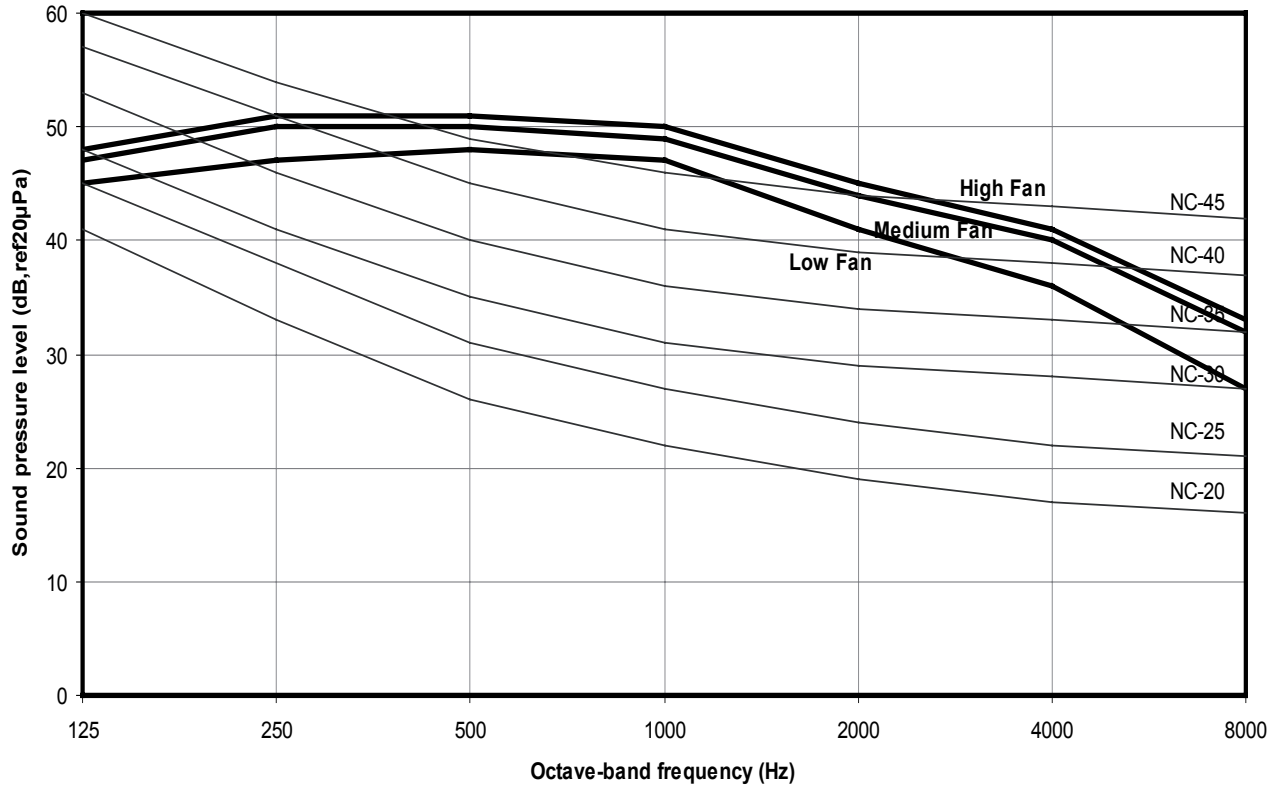
NC CURVES



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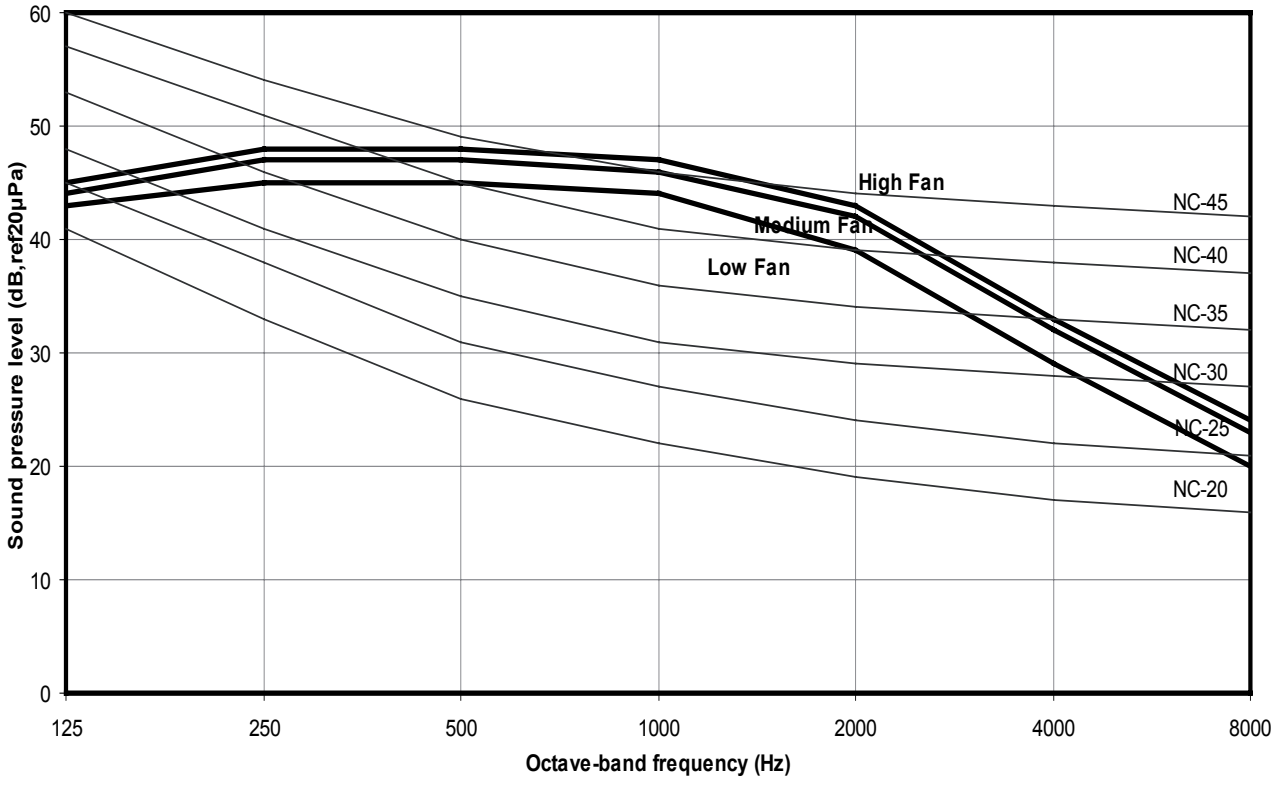

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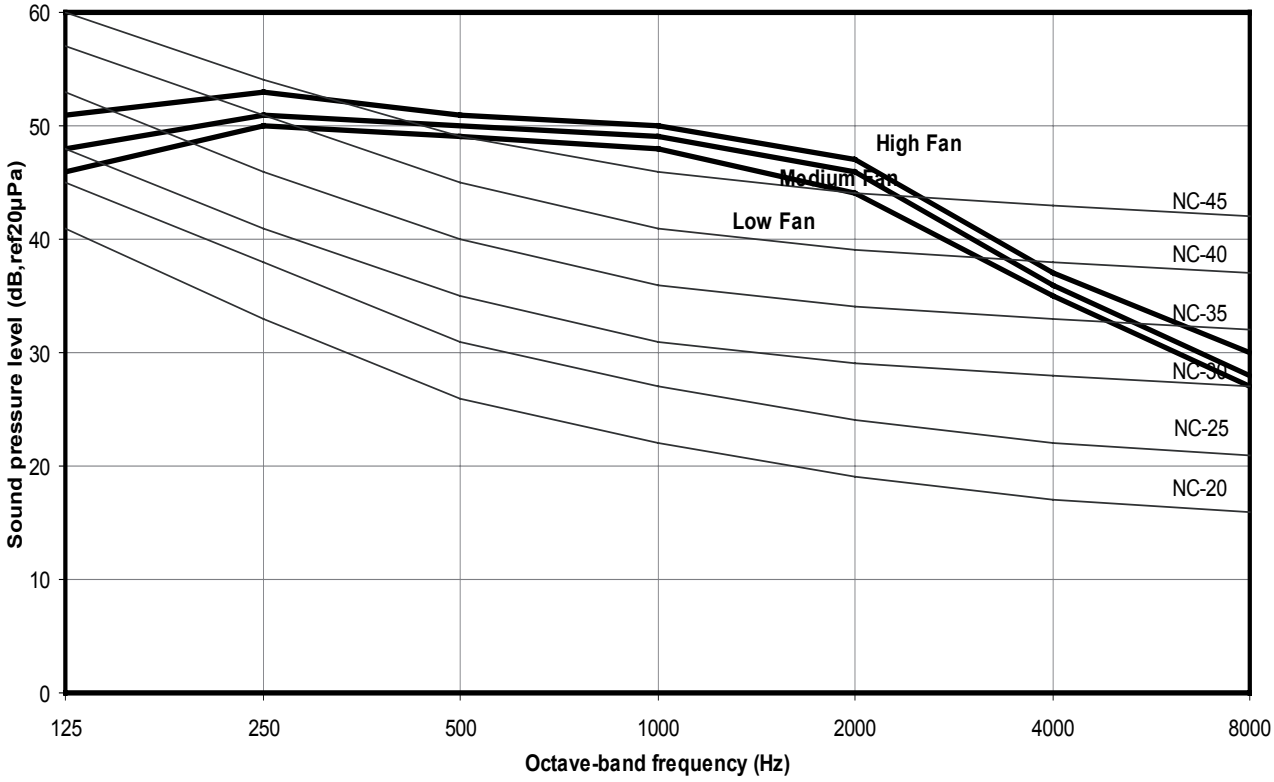

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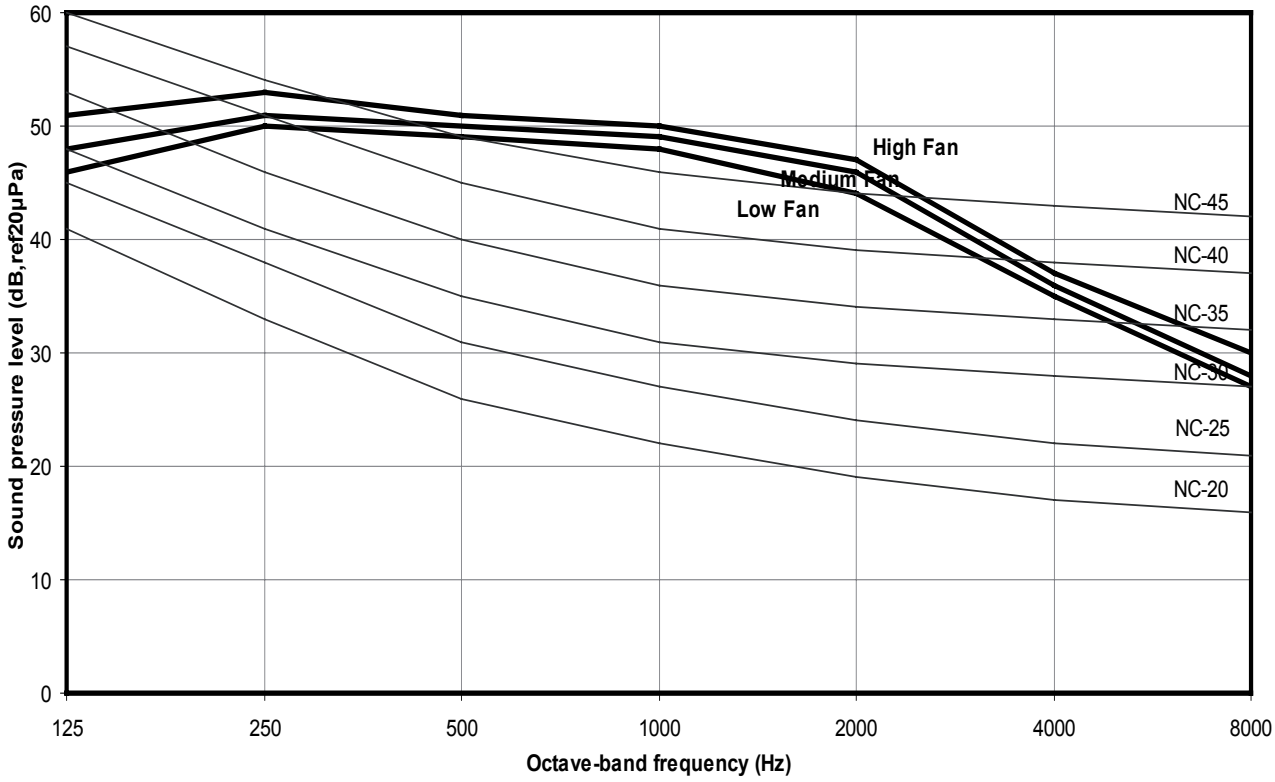
NC CURVES



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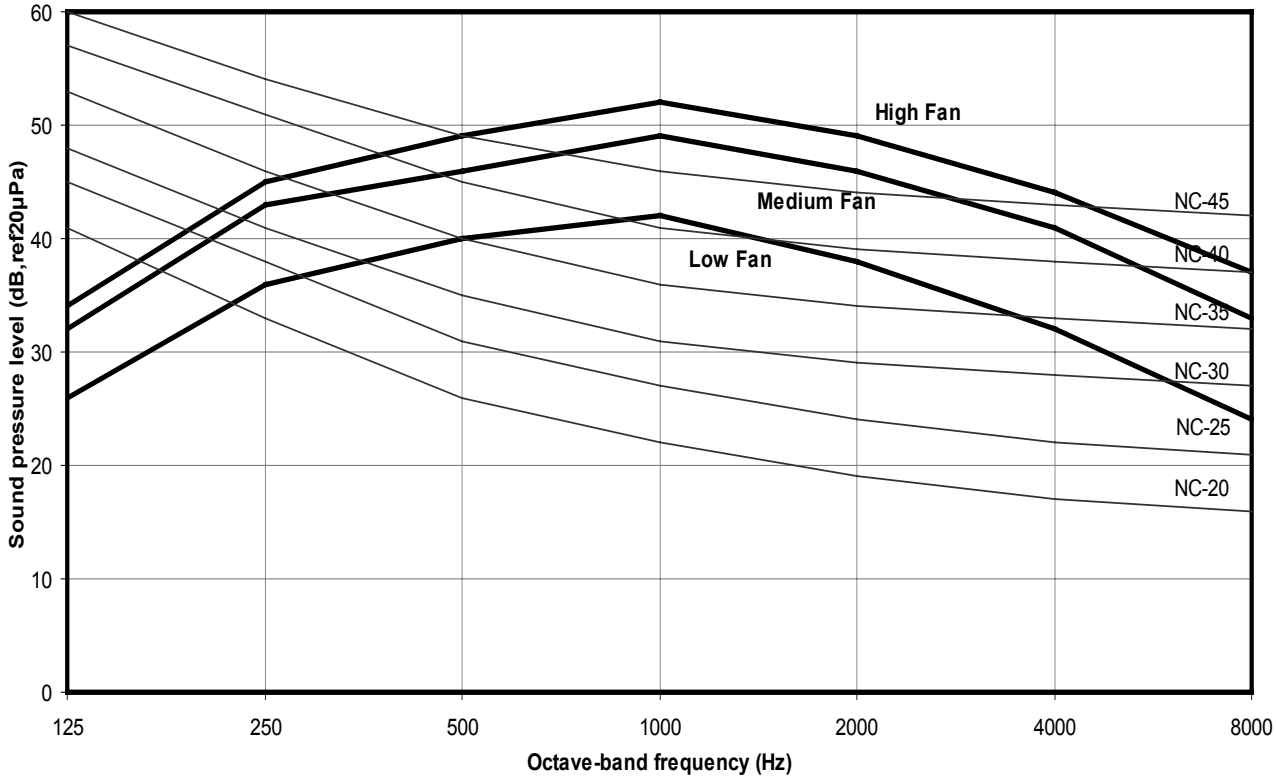
NC CURVES



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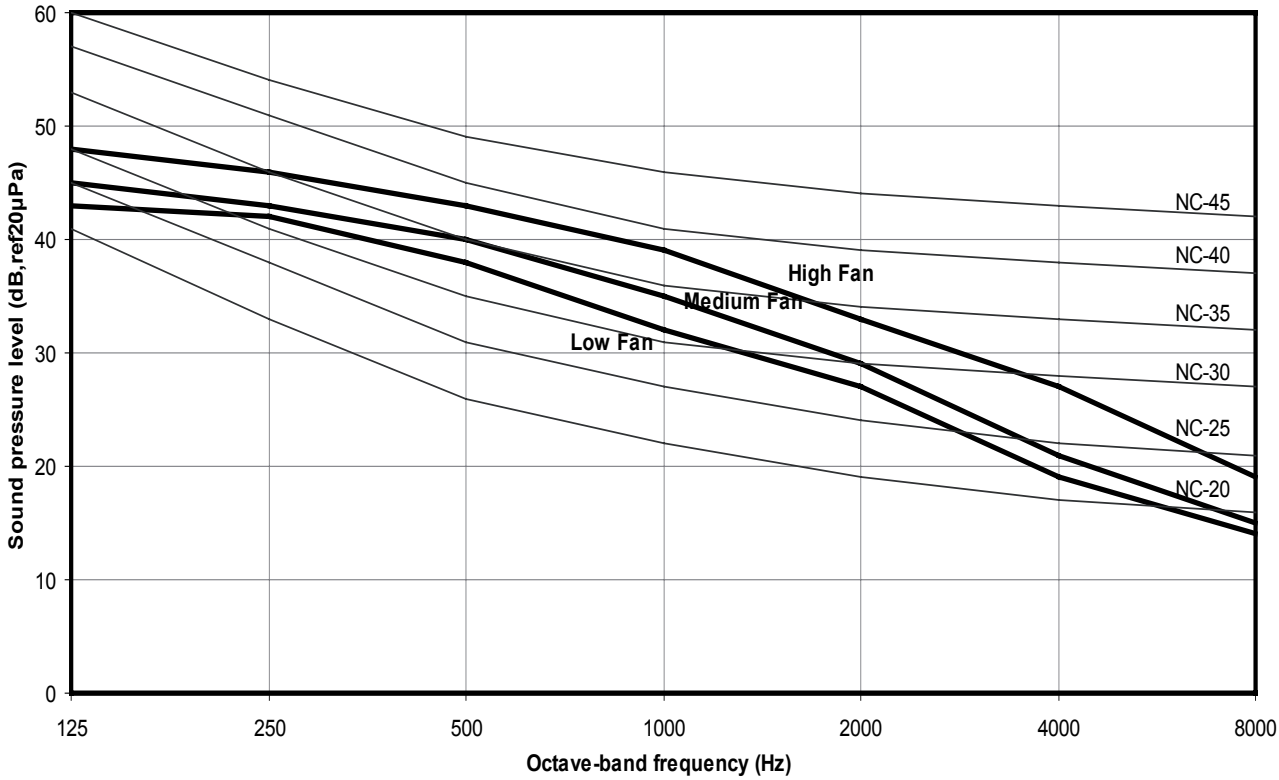
NC CURVES



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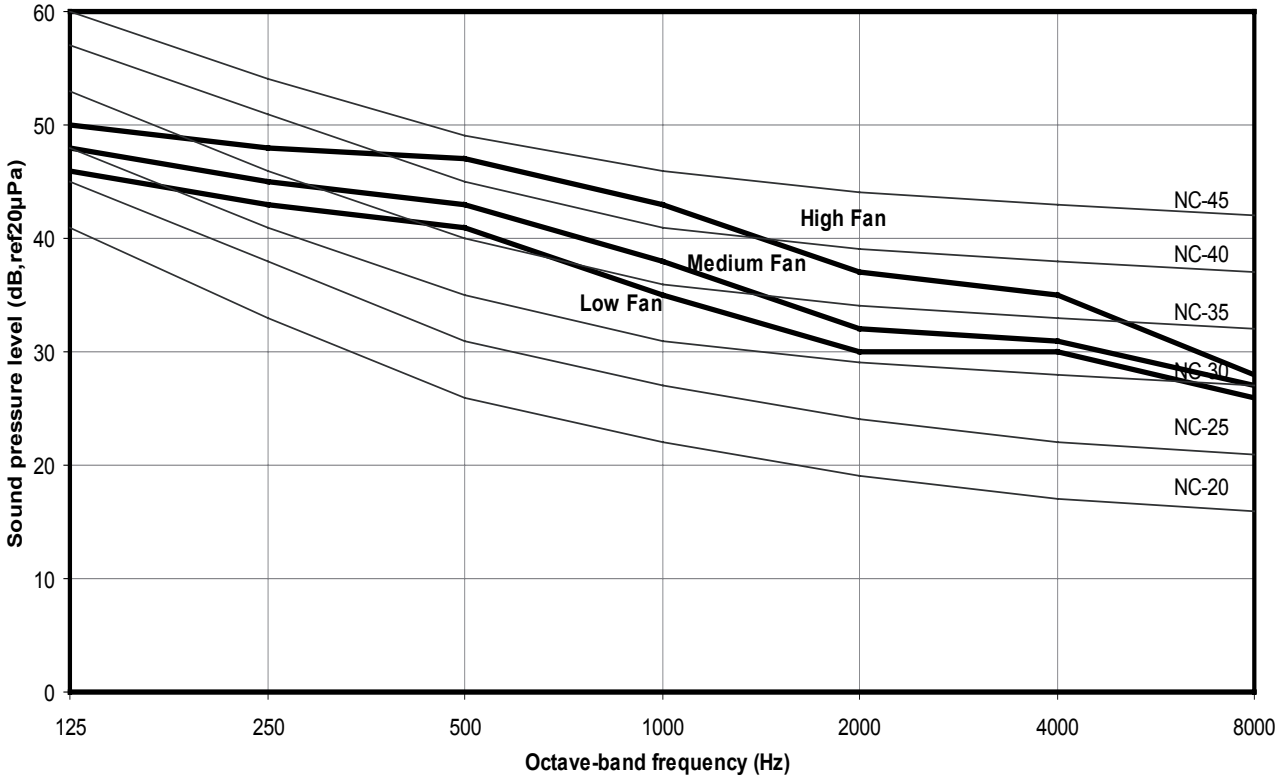

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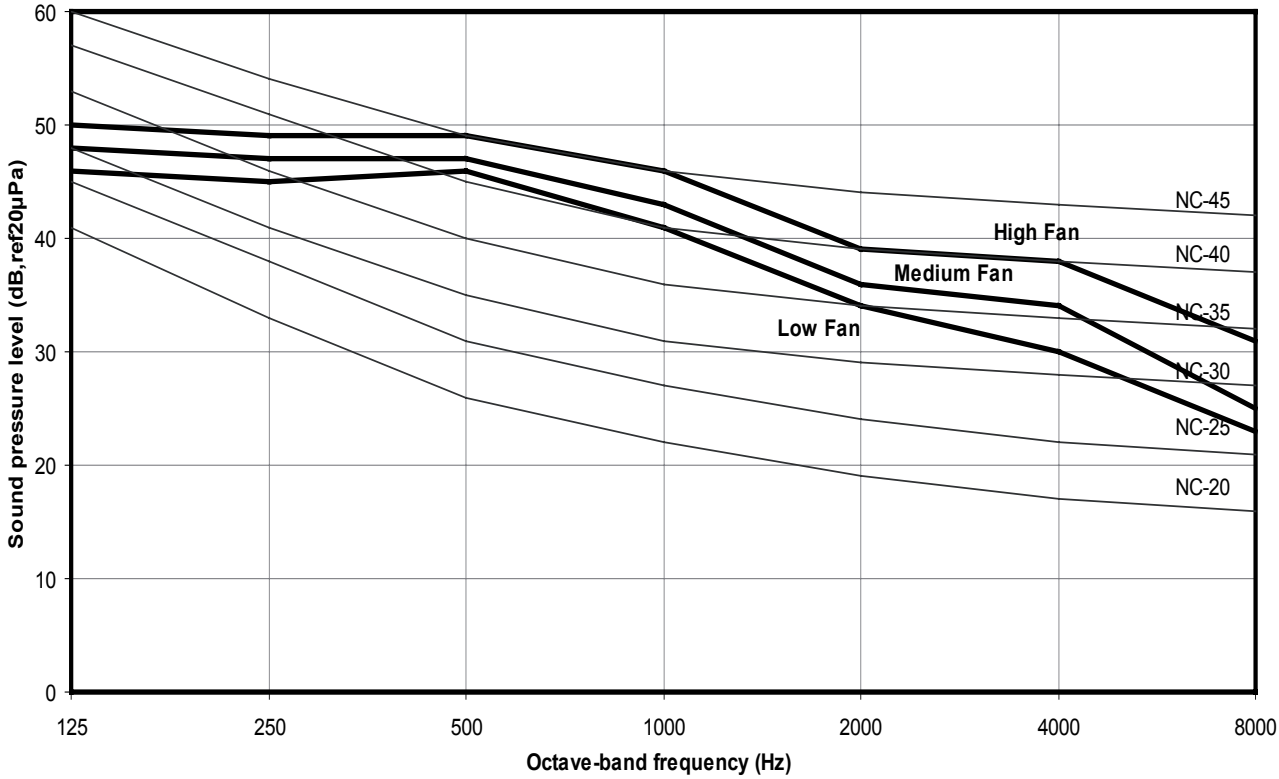

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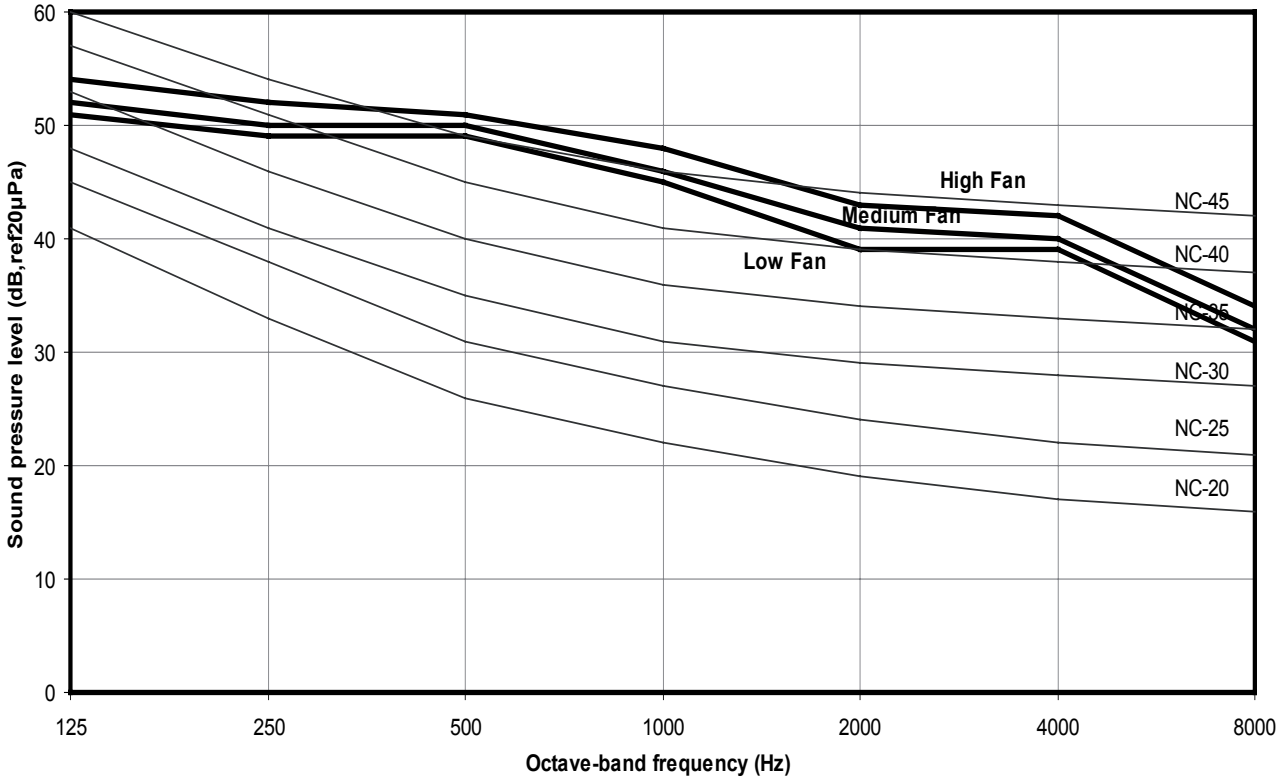

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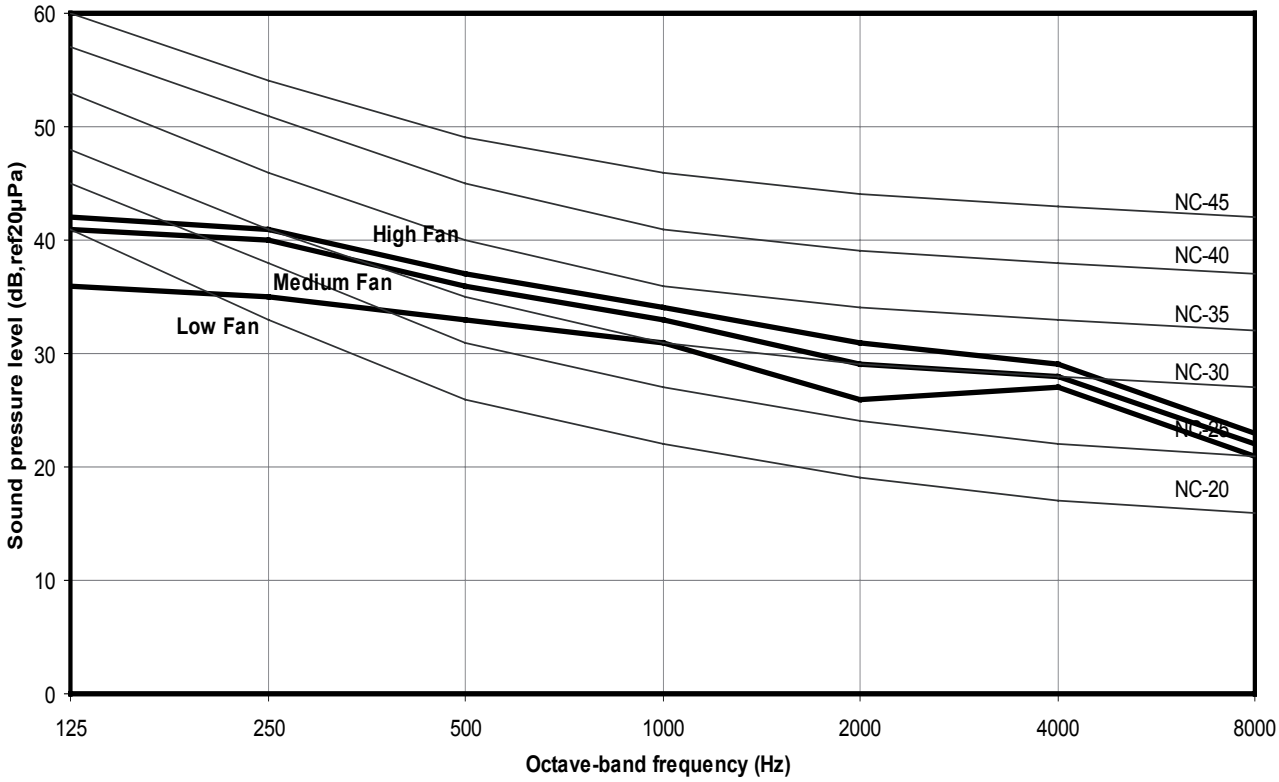

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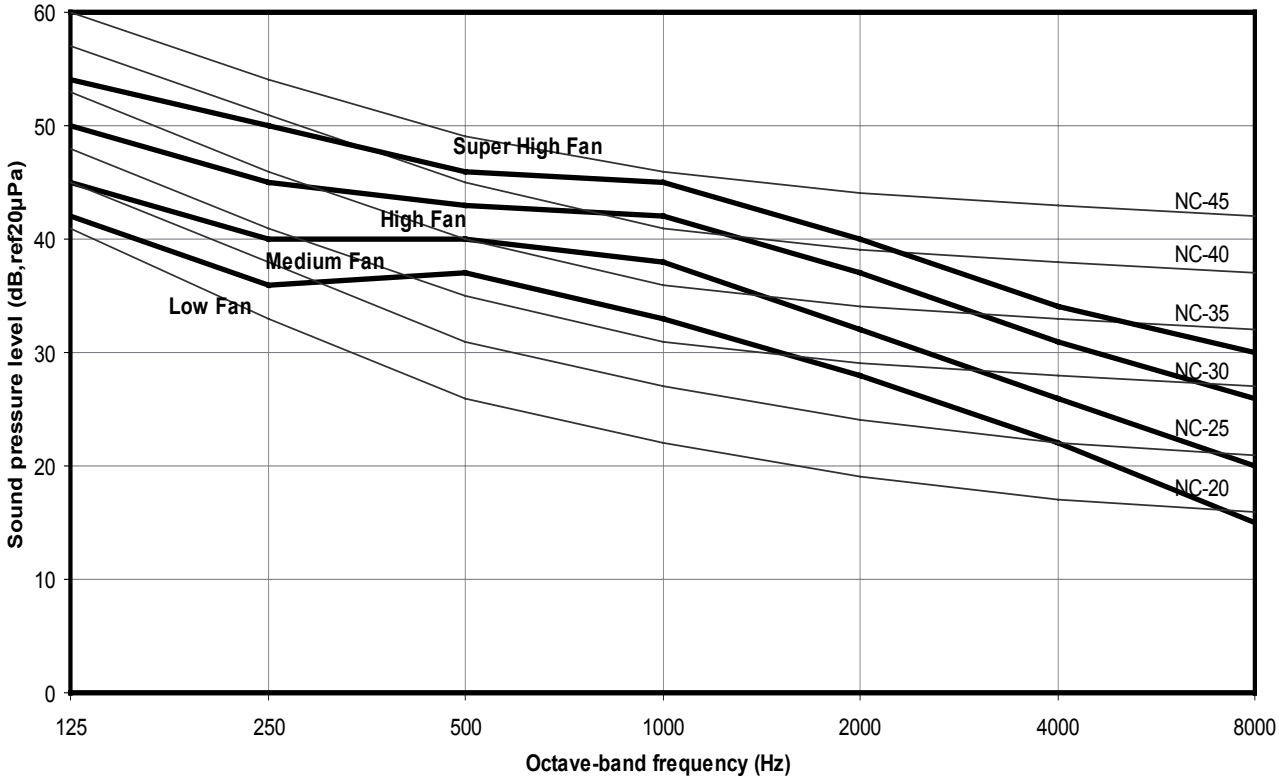

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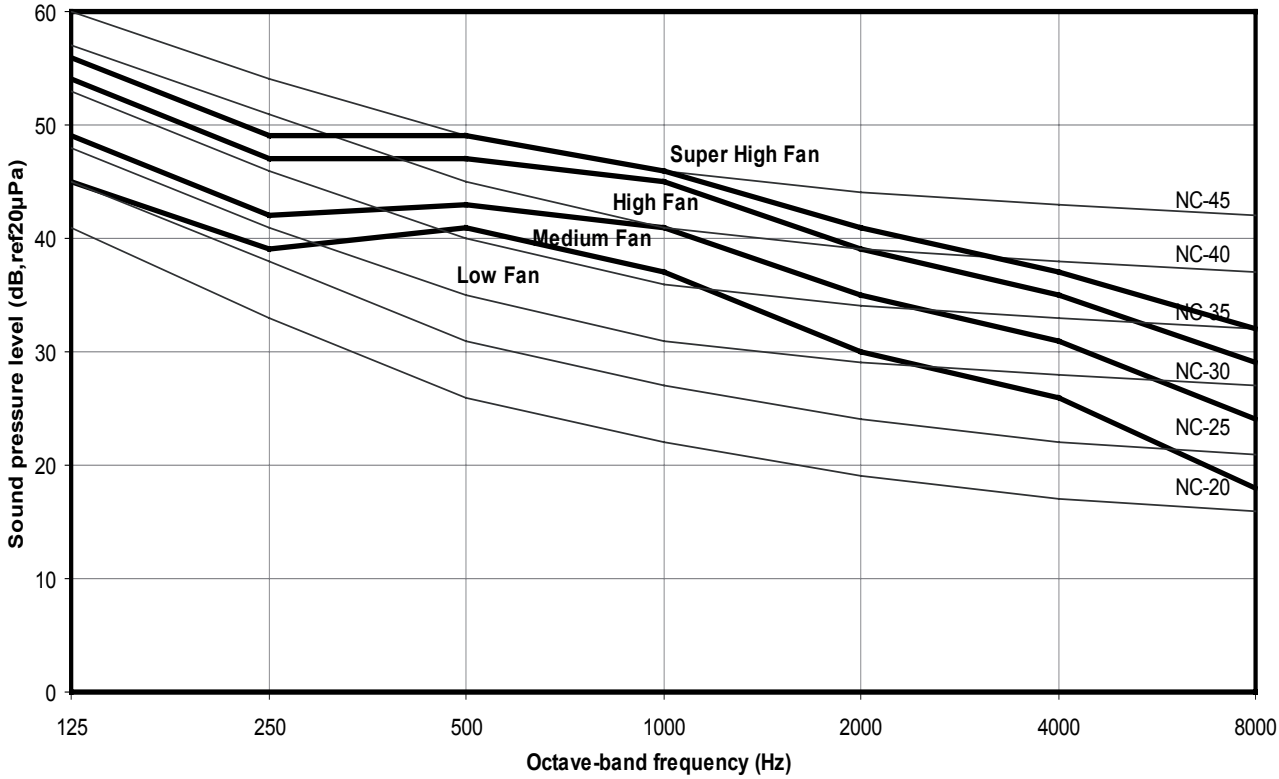

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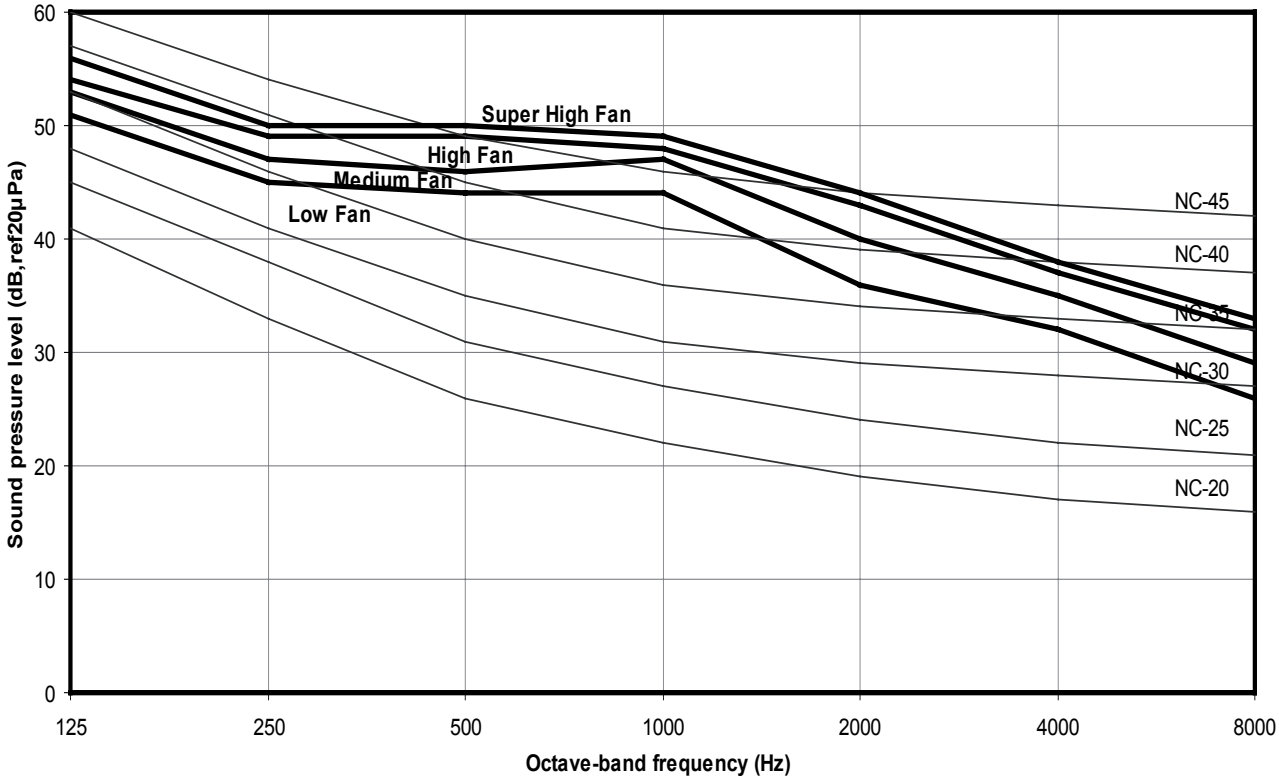

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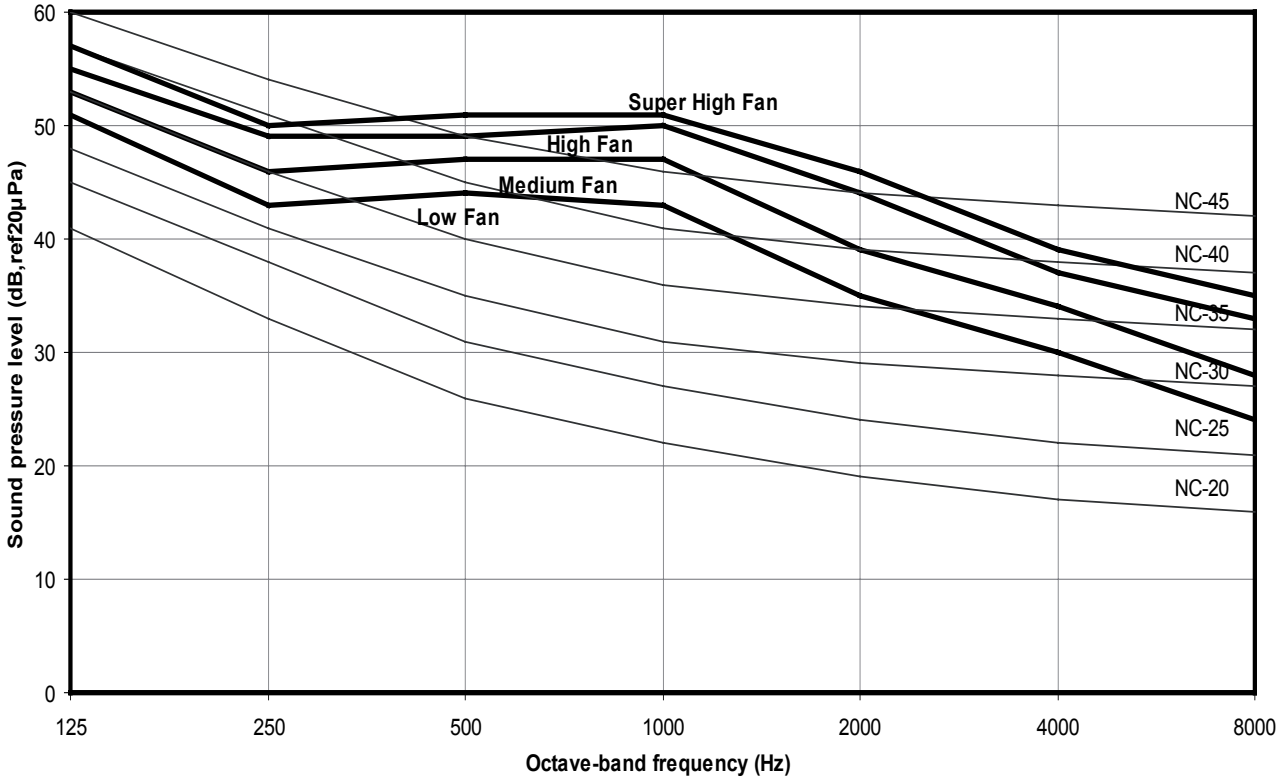

Engineering & Physical Data

General Data - Cooling Only (R22)

MODEL					MWM025G	MWM030F
				OUTDOOR UNIT	MVCU025A	MVCU030A
NOMINAL CAPACITY				Btu/h	23500	29000
				W	6887	8499
NOMINAL TOTAL INPUT POWER				W	2441	2895
NOMINAL RUNNING CURRENT				A	12.5	5.1
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 3 / 50
EER				W/W	2.82	2.94
REFRIGERANT TYPE					R22	R22
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR CAP. TUBE	EXTERNAL ORIFICE
INDOOR UNIT	CONTROL	AIR DISCHARGE			DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	AUTO LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)
		OPERATION			LCD REMOTE CONTROL	LCD REMOTE CONTROL
	AIR FLOW	HIGH		l/s / CFM	297 / 630	316 / 670
		MEDIUM		l/s / CFM	231 / 490	297 / 630
		LOW		l/s / CFM	208 / 440	236 / 500
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa / in.wg.	-	-
	SOUND PRESSURE LEVEL (H/M/L)			dBA	49 / 44 / 42	49 / 47 / 45
	UNIT DIMENSION	HEIGHT		mm/in	304 / 12.0	360 / 14.2
		WIDTH		mm/in	1062 / 41.8	1200 / 47.2
		DEPTH		mm/in	222 / 8.7	200 / 7.9
	PACKING DIMENSION	HEIGHT		mm/in	378 / 14.9	420 / 16.5
		WIDTH		mm/in	1130 / 44.5	1267 / 49.9
		DEPTH		mm/in	292 / 11.5	260 / 10.2
	UNIT WEIGHT			kg/lb	16 / 35	17 / 37
	CONDENSATE DRAIN SIZE			mm/in	20 / 0.8	20 / 0.8
OUTDOOR UNIT	AIR FLOW			l/s / CFM	927 / 1965	1251 / 2650
	SOUND PRESSURE LEVEL			dBA	57	59
	UNIT DIMENSION	HEIGHT		mm/in	841 / 33.1	841 / 33.1
		WIDTH		mm/in	572 / 22.5	572 / 22.5
		DEPTH		mm/in	572 / 22.5	572 / 22.5
	PACKING DIMENSION	HEIGHT		mm/in	950 / 37.4	950 / 37.4
		WIDTH		mm/in	660 / 26.0	660 / 26.0
		DEPTH		mm/in	660 / 26.0	660 / 26.0
	UNIT WEIGHT			kg/lb	64 / 141	70 / 154
	PIPE CONNECTION	TYPE			BRAZED VALVE	BRAZED VALVE
		SIZE	LIQUID	mm/in	9.5 / 3/8	9.5 / 3/8
			GAS	mm/in	15.9 / 5/8	15.9 / 5/8
REFRIGERANT CHARGE				kg/lb	1.9 / 4.1	2.3 / 5.1

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 0.8m BELOW THE UNIT. (MWM025G)
SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT. (MWM030F)

General Data - Cooling Only (R22)

MODEL					INDOOR UNIT		MCM025D	MCM030D
					OUTDOOR UNIT		MVCU025A	MVCU030A
NOMINAL CAPACITY						Btu/h	24000	29500
						W	7034	8646
NOMINAL TOTAL INPUT POWER						W	2500	2934
NOMINAL RUNNING CURRENT						A	12.8	5.2
POWER SOURCE						V/Ph/Hz	220 - 240 / 1 / 50	380 - 415 / 3 / 50
EER						W/W	2.81	2.95
REFRIGERANT TYPE							R22	R22
REFRIGERANT CONTROL (EXPANSION DEVICE)							OUTDOOR CAP. TUBE	INDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE					AUTO LOUVER (UP & DOWN) & MANUAL LOUVER (BOTTOM)	AUTO LOUVER (UP & DOWN) & MANUAL LOUVER (BOTTOM)
		OPERATION					WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH				I/s / CFM	297 / 630	326 / 690
		MEDIUM				I/s / CFM	274 / 580	297 / 630
		LOW				I/s / CFM	245 / 500	255 / 540
	EXTERNAL STATIC PRESSURE (H/M/L)					Pa / in.wg.	-	-
	SOUND PRESSURE LEVEL (H/M/L)					dBA	54 / 53 / 50	51 / 50 / 48
	UNIT DIMENSION		HEIGHT			mm/in	214 / 8.4	249 / 9.8
			WIDTH			mm/in	1214 / 47.8	1214 / 47.8
			DEPTH			mm/in	670 / 26.3	670 / 26.3
	PACKING DIMENSION		HEIGHT			mm/in	301 / 11.9	345 / 13.6
			WIDTH			mm/in	1311 / 51.6	1361 / 53.5
			DEPTH			mm/in	760 / 29.9	760 / 29.9
	UNIT WEIGHT					kg/lb	43 / 95	45 / 99
	CONDENSATE DRAIN SIZE					mm/in	19 / 3/4	19 / 3/4
OUTDOOR UNIT	AIR FLOW					I/s / CFM	927 / 1965	1251 / 2650
	SOUND PRESSURE LEVEL					dBA	57	59
	UNIT DIMENSION		HEIGHT			mm/in	841 / 33.1	841 / 33.1
			WIDTH			mm/in	572 / 22.5	572 / 22.5
			DEPTH			mm/in	572 / 22.5	572 / 22.5
	PACKING DIMENSION		HEIGHT			mm/in	950 / 37.4	950 / 37.4
			WIDTH			mm/in	660 / 26.0	660 / 26.0
			DEPTH			mm/in	660 / 26.0	660 / 26.0
	UNIT WEIGHT					kg/lb	64 / 141	70 / 154
	PIPE CONNECTION		TYPE				BRAZED VALVE	BRAZED VALVE
			SIZE	LIQUID		mm/in	9.5 / 3/8	9.5 / 3/8
				GAS		mm/in	15.9 / 5/8	15.9 / 5/8
REFRIGERANT CHARGE						kg/lb	2.0 / 4.3	2.2 / 4.9

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 0.8m BELOW THE UNIT. (MCM025D)
SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT. (MCM030D)

General Data - Cooling Only (R22)

MODEL						INDOOR UNIT		MCM040D	MCM040D
						OUTDOOR UNIT		MVCU035A	MVCU040A
NOMINAL CAPACITY							Btu/h	35000	40000
							W	10258	11723
NOMINAL TOTAL INPUT POWER							W	3390	3220
NOMINAL RUNNING CURRENT							A	5.9	5.8
POWER SOURCE							V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
EER							W/W	3.03	3.64
REFRIGERANT TYPE								R22	R22
REFRIGERANT CONTROL (EXPANSION DEVICE)								INDOOR CAP. TUBE	INDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE						AUTO LOUVER (UP & DOWN) & MANUAL LOUVER (BOTTOM)	AUTO LOUVER (UP & DOWN) & MANUAL LOUVER (BOTTOM)
		OPERATION						WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH					l/s / CFM	477 / 1010	477 / 1010
		MEDIUM					l/s / CFM	420 / 890	420 / 890
		LOW					l/s / CFM	368 / 780	368 / 780
	EXTERNAL STATIC PRESSURE (H/M/L)						Pa / in.wg.	-	-
	SOUND PRESSURE LEVEL (H/M/L)						dBA	54 / 53 / 52	54 / 53 / 52
	UNIT DIMENSION		HEIGHT				mm/in	249 / 9.8	249 / 9.8
			WIDTH				mm/in	1714 / 67.4	1714 / 67.4
			DEPTH				mm/in	670 / 26.3	670 / 26.3
	PACKING DIMENSION		HEIGHT				mm/in	345 / 13.6	345 / 13.6
			WIDTH				mm/in	1816 / 71.4	1816 / 71.4
			DEPTH				mm/in	760 / 29.9	760 / 29.9
	UNIT WEIGHT						kg/lb	70 / 154	70 / 154
	CONDENSATE DRAIN SIZE						mm/in	19 / 3/4	19 / 3/4
OUTDOOR UNIT	AIR FLOW						l/s / CFM	1338 / 2836	1567 / 3320
	SOUND PRESSURE LEVEL						dBA	64	67
	UNIT DIMENSION		HEIGHT				mm/in	841 / 33.1	984 / 38.7
			WIDTH				mm/in	572 / 22.5	762 / 30.0
			DEPTH				mm/in	572 / 22.5	762 / 30.0
	PACKING DIMENSION		HEIGHT				mm/in	950 / 37.4	1090 / 42.9
			WIDTH				mm/in	660 / 26.0	860 / 33.9
			DEPTH				mm/in	660 / 26.0	860 / 33.9
	UNIT WEIGHT						kg/lb	70 / 154	93 / 205
	PIPE CONNECTION		TYPE					BRAZED VALVE	BRAZED VALVE
			SIZE	LIQUID			mm/in	9.5 / 3/8	9.5 / 3/8
				GAS			mm/in	15.9 / 5/8	19 / 3/4
REFRIGERANT CHARGE							kg/lb	2.8 / 6.1	3.5 / 7.7

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Cooling Only (R22)

MODEL					INDOOR UNIT		MCM050D	MCM062C
					OUTDOOR UNIT		MVCU050A	MVCU060A
NOMINAL CAPACITY						Btu/h	49000	58000
						W	14361	16999
NOMINAL TOTAL INPUT POWER						W	4285	5141
NOMINAL RUNNING CURRENT						A	8.2	8.8
POWER SOURCE						V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
EER						W/W	3.35	3.31
REFRIGERANT TYPE							R22	R22
REFRIGERANT CONTROL (EXPANSION DEVICE)							INDOOR CAP. TUBE	INDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE					AUTO LOUVER (UP & DOWN) & MANUAL LOUVER (BOTTOM)	MANUAL LOUVER
		OPERATION					WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH				l/s / CFM	491 / 1040	731 / 1550
		MEDIUM				l/s / CFM	448 / 950	623 / 1320
		LOW				l/s / CFM	387 / 820	472 / 1000
	EXTERNAL STATIC PRESSURE (H/M/L)					Pa / in.wg.	-	-
	SOUND PRESSURE LEVEL (H/M/L)					dBA	54 / 53 / 52	56 / 53 / 46
	UNIT DIMENSION	HEIGHT				mm/in	249 / 9.8	285 / 11.2
		WIDTH				mm/in	1714 / 67.4	1903 / 74.9
		DEPTH				mm/in	670 / 26.3	680 / 26.8
	PACKING DIMENSION	HEIGHT				mm/in	345 / 13.6	368 / 14.5
		WIDTH				mm/in	1816 / 71.4	1984 / 78.1
		DEPTH				mm/in	760 / 29.9	760 / 29.9
	UNIT WEIGHT					kg/lb	70 / 154	85 / 187
	CONDENSATE DRAIN SIZE					mm/in	19 / 3/4	19 / 3/4
OUTDOOR UNIT	AIR FLOW					l/s / CFM	1944 / 4120	1944 / 4120
	SOUND PRESSURE LEVEL					dBA	61	63
	UNIT DIMENSION	HEIGHT				mm/in	1086 / 42.8	1086 / 42.8
		WIDTH				mm/in	762 / 30.0	762 / 30.0
		DEPTH				mm/in	762 / 30.0	762 / 30.0
	PACKING DIMENSION	HEIGHT				mm/in	1190 / 46.9	1190 / 46.9
		WIDTH				mm/in	860 / 33.9	860 / 33.9
		DEPTH				mm/in	860 / 33.9	860 / 33.9
	UNIT WEIGHT					kg/lb	100 / 220	102 / 225
	PIPE CONNECTION	TYPE					BRAZED VALVE	BRAZED VALVE
		SIZE	LIQUID			mm/in	9.5 / 3/8	12.7 / 1/2
			GAS			mm/in	19 / 3/4	19 / 3/4
REFRIGERANT CHARGE						kg/lb	3.4 / 7.5	3.7 / 8.1

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Cooling Only (R22)

MODEL					INDOOR UNIT		MCK025A	MCK030A
					OUTDOOR UNIT		MVCU025A	MVCU030A
NOMINAL CAPACITY						Btu/h	24000	30000
						W	7034	8792
NOMINAL TOTAL INPUT POWER						W	2550	2977
NOMINAL RUNNING CURRENT						A	13.0	5.2
POWER SOURCE						V/Ph/Hz	220 - 240 / 1 / 50	380 - 415 / 3 / 50
EER						W/W	2.76	2.95
REFRIGERANT TYPE							R22	R22
REFRIGERANT CONTROL (EXPANSION DEVICE)							OUTDOOR CAP. TUBE	INDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE					4 WAY AUTOMATIC LOUVER (UP & DOWN)	4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION					WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH				l/s / CFM	368 / 780	415 / 880
		MEDIUM				l/s / CFM	311 / 660	349 / 740
		LOW				l/s / CFM	283 / 600	321 / 680
	EXTERNAL STATIC PRESSURE (H/M/L)					Pa / in.wg.	-	-
	SOUND PRESSURE LEVEL (H/M/L)					dBA	45 / 42 / 40	49 / 45 / 43
	UNIT DIMENSION ( ) - WITH PANEL	HEIGHT				mm/in	335 (378) / 13.2 (14.9)	335 (378) / 13.2 (14.9)
		WIDTH				mm/in	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)
		DEPTH				mm/in	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)
	PACKING DIMENSION ( ) - PANEL	HEIGHT				mm/in	380 (130) / 15.0 (5.1)	380 (130) / 15.0 (5.1)
		WIDTH				mm/in	920 (1020) / 36.2 (40.2)	920 (1020) / 36.2 (40.2)
		DEPTH				mm/in	920 (1000) / 36.2 (39.4)	920 (1000) / 36.2 (39.4)
	UNIT WEIGHT (UNIT + PANEL)					kg/lb	32 + 4 / 71 + 9	35 + 4 / 77 + 9
	CONDENSATE DRAIN SIZE					mm/in	19 / 3/4	19 / 3/4
OUTDOOR UNIT	AIR FLOW					l/s / CFM	927 / 1965	1251 / 2650
	SOUND PRESSURE LEVEL					dBA	57	59
	UNIT DIMENSION	HEIGHT				mm/in	841 / 33.1	841 / 33.1
		WIDTH				mm/in	572 / 22.5	572 / 22.5
		DEPTH				mm/in	572 / 22.5	572 / 22.5
	PACKING DIMENSION	HEIGHT				mm/in	950 / 37.4	950 / 37.4
		WIDTH				mm/in	660 / 26.0	660 / 26.0
		DEPTH				mm/in	660 / 26.0	660 / 26.0
	UNIT WEIGHT					kg/lb	64 / 141	70 / 154
	PIPE CONNECTION	TYPE					BRAZED VALVE	BRAZED VALVE
		SIZE	LIQUID			mm/in	9.5 / 3/8	9.5 / 3/8
			GAS			mm/in	15.9 / 5/8	15.9 / 5/8
REFRIGERANT CHARGE						kg/lb	2.2 / 4.7	2.3 / 5.1

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m FROM THE CENTRE OF THE UNIT. (MCK025A)
SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m FROM THE CENTRE OF THE UNIT. (MCK030A)

General Data - Cooling Only (R22)

MODEL		INDOOR UNIT			MCK040A	MCK040A
		OUTDOOR UNIT			MVCU035A	MVCU040A
NOMINAL CAPACITY				Btu/h	36500	41000
				W	10698	12016
NOMINAL TOTAL INPUT POWER				W	3421	3251
NOMINAL RUNNING CURRENT				A	6.0	5.8
POWER SOURCE				V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
EER				W/W	3.13	3.70
REFRIGERANT TYPE					R22	R22
REFRIGERANT CONTROL (EXPANSION DEVICE)					INDOOR CAP. TUBE	INDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE			4 WAY AUTOMATIC LOUVER (UP & DOWN)	4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION			WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH		l/s / CFM	467 / 990	467 / 990
		MEDIUM		l/s / CFM	406 / 860	406 / 860
		LOW		l/s / CFM	359 / 760	359 / 760
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa / in.wg.	-	-
	SOUND PRESSURE LEVEL (H/M/L)			dBA	51 / 48 / 46	51 / 48 / 46
	UNIT DIMENSION ( ) - WITH PANEL	HEIGHT		mm/in	335 (378) / 13.2 (14.9)	335 (378) / 13.2 (14.9)
		WIDTH		mm/in	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)
		DEPTH		mm/in	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)
	PACKING DIMENSION ( ) - PANEL	HEIGHT		mm/in	380 (130) / 15.0 (5.1)	380 (130) / 15.0 (5.1)
		WIDTH		mm/in	920 (1020) / 36.2 (40.2)	920 (1020) / 36.2 (40.2)
		DEPTH		mm/in	920 (1000) / 36.2 (39.4)	920 (1000) / 36.2 (39.4)
	UNIT WEIGHT (UNIT + PANEL)			kg/lb	38 + 4 / 84 + 9	38 + 4 / 84 + 9
	CONDENSATE DRAIN SIZE			mm/in	19 / 3/4	19 / 3/4
OUTDOOR UNIT	AIR FLOW			l/s / CFM	1338 / 2836	1567 / 3320
	SOUND PRESSURE LEVEL			dBA	64	67
	UNIT DIMENSION	HEIGHT		mm/in	841 / 33.1	984 / 38.7
		WIDTH		mm/in	572 / 22.5	762 / 30.0
		DEPTH		mm/in	572 / 22.5	762 / 30.0
	PACKING DIMENSION	HEIGHT		mm/in	950 / 37.4	1090 / 42.9
		WIDTH		mm/in	660 / 26.0	860 / 33.9
		DEPTH		mm/in	660 / 26.0	860 / 33.9
	UNIT WEIGHT			kg/lb	70 / 154	93 / 205
	PIPE CONNECTION	TYPE			BRAZED VALVE	BRAZED VALVE
		SIZE	LIQUID	mm/in	9.5 / 3/8	9.5 / 3/8
			GAS	mm/in	15.9 / 5/8	19 / 3/4
REFRIGERANT CHARGE				kg/lb	2.8 / 6.1	3.7 / 8.2

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m FROM THE CENTRE OF THE UNIT.

General Data - Cooling Only (R22)

MODEL		INDOOR UNIT			MCK050A
		OUTDOOR UNIT			MVCU050A
NOMINAL CAPACITY				Btu/h	49500
				W	14508
NOMINAL TOTAL INPUT POWER				W	4346
NOMINAL RUNNING CURRENT				A	8.3
POWER SOURCE				V/Ph/Hz	380 - 415 / 3 / 50
EER				W/W	3.34
REFRIGERANT TYPE					R22
REFRIGERANT CONTROL (EXPANSION DEVICE)					INDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE			4 WAY AUTOMATIC LOUVER (UP & DOWN)
		OPERATION			WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL
	AIR FLOW	HIGH		l/s / CFM	491 / 1040
		MEDIUM		l/s / CFM	448 / 950
		LOW		l/s / CFM	411 / 870
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa / in.wg.	-
	SOUND PRESSURE LEVEL (H/M/L)			dBA	53 / 52 / 50
	UNIT DIMENSION ( ) - WITH PANEL	HEIGHT		mm/in	335 (378) / 13.2 (14.9)
		WIDTH		mm/in	820 (930) / 32.2 (36.6)
		DEPTH		mm/in	820 (930) / 32.2 (36.6)
	PACKING DIMENSION ( ) - PANEL	HEIGHT		mm/in	380 (130) / 15.0 (5.1)
		WIDTH		mm/in	920 (1020) / 36.2 (40.2)
		DEPTH		mm/in	920 (1000) / 36.2 (39.4)
	UNIT WEIGHT (UNIT + PANEL)			kg/lb	40 + 4 / 88 + 9
	CONDENSATE DRAIN SIZE			mm/in	19 / 3/4
OUTDOOR UNIT	AIR FLOW			l/s / CFM	1944 / 4120
	SOUND PRESSURE LEVEL			dBA	61
	UNIT DIMENSION	HEIGHT		mm/in	1086 / 42.8
		WIDTH		mm/in	762 / 30.0
		DEPTH		mm/in	762 / 30.0
	PACKING DIMENSION	HEIGHT		mm/in	1190 / 46.9
		WIDTH		mm/in	860 / 33.9
		DEPTH		mm/in	860 / 33.9
	UNIT WEIGHT			kg/lb	100 / 220
	PIPE CONNECTION	TYPE			BRAZED VALVE
		SIZE	LIQUID	mm/in	9.5 / 3/8
			GAS	mm/in	19 / 3/4
REFRIGERANT CHARGE				kg/lb	3.8 / 8.4

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m FROM THE CENTRE OF THE UNIT.

General Data - Cooling Only (R22)

MODEL		INDOOR UNIT			MCC025C	MCC030C
		OUTDOOR UNIT			MVCU025A	MVCU030A
NOMINAL CAPACITY				Btu/h	24000	30900
				W	7034	9056
NOMINAL TOTAL INPUT POWER				W	2574	3179
NOMINAL RUNNING CURRENT				A	13.1	5.5
POWER SOURCE				V/Ph/Hz	220 - 240 / 1 / 50	380 - 415 / 3 / 50
EER				W/W	2.73	3.06
REFRIGERANT TYPE					R22	R22
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR CAP. TUBE	INDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE			DUCTED	DUCTED
		OPERATION			SLM WIRED HANDSET	SLM WIRED HANDSET
	AIR FLOW	SUPER HIGH		l/s / CFM	-	425 / 900
		HIGH		l/s / CFM	382 / 810	392 / 830
		MEDIUM		l/s / CFM	359 / 760	359 / 760
		LOW		l/s / CFM	288 / 610	335 / 710
	EXTERNAL STATIC PRESSURE (SH/H/M/L)			Pa / in.wg.	- / 41 / 31 / 18 (- / 0.2 / 0.1 / 0.1)	206 / 167 / 127 / 88 (0.8 / 0.7 / 0.5 / 0.4)
	SOUND PRESSURE LEVEL (SH/H/M/L)			dBA	- / 40 / 39 / 36	49 / 46 / 42 / 38
	UNIT DIMENSION	HEIGHT		mm/in	261 / 10.3	378 / 14.9
		WIDTH		mm/in	1200 / 47.2	929 / 36.6
		DEPTH		mm/in	411 / 16.2	541 / 21.3
	PACKING DIMENSION	HEIGHT		mm/in	376 / 14.8	415 / 16.3
		WIDTH		mm/in	1386 / 54.6	1126 / 44.3
		DEPTH		mm/in	541 / 21.3	631 / 24.8
	UNIT WEIGHT			kg/lb	25 / 55	39 / 86
	CONDENSATE DRAIN SIZE			mm/in	19 / 3/4	19 / 3/4
OUTDOOR UNIT	AIR FLOW			l/s / CFM	927 / 1965	1251 / 2650
	SOUND PRESSURE LEVEL			dBA	57	59
	UNIT DIMENSION	HEIGHT		mm/in	841 / 33.1	841 / 33.1
		WIDTH		mm/in	572 / 22.5	572 / 22.5
		DEPTH		mm/in	572 / 22.5	572 / 22.5
	PACKING DIMENSION	HEIGHT		mm/in	950 / 37.4	950 / 37.4
		WIDTH		mm/in	660 / 26.0	660 / 26.0
		DEPTH		mm/in	660 / 26.0	660 / 26.0
	UNIT WEIGHT			kg/lb	64 / 141	70 / 154
	PIPE CONNECTION	TYPE			BRAZED VALVE	BRAZED VALVE
		SIZE	LIQUID	mm/in	9.5 / 3/8	9.5 / 3/8
			GAS	mm/in	15.9 / 5/8	15.9 / 5/8
REFRIGERANT CHARGE				kg/lb	2.0 / 4.4	2.3 / 5.1

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO GB/D17758 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW THE CENTRE OF THE UNIT.

General Data - Cooling Only (R22)

MODEL					INDOOR UNIT		MCC040C	MCC040C
					OUTDOOR UNIT		MVCU035A	MVCU040A
NOMINAL CAPACITY						Btu/h	36000	40000
						W	10551	11723
NOMINAL TOTAL INPUT POWER						W	3685	3504
NOMINAL RUNNING CURRENT						A	6.4	6.2
POWER SOURCE						V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
EER						W/W	3.11	3.65
REFRIGERANT TYPE							R22	R22
REFRIGERANT CONTROL (EXPANSION DEVICE)							INDOOR CAP. TUBE	INDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE					DUCTED	DUCTED
		OPERATION					SLM WIRED HANDSET	SLM WIRED HANDSET
	AIR FLOW	SUPER HIGH				l/s / CFM	519 / 1100	519 / 1100
		HIGH				l/s / CFM	500 / 1060	500 / 1060
		MEDIUM				l/s / CFM	467 / 990	467 / 990
		LOW				l/s / CFM	425 / 900	425 / 900
	EXTERNAL STATIC PRESSURE (SH/H/M/L)					Pa / in.wg.	206 / 176 / 127 / 93 (0.8 / 0.7 / 0.5 / 0.4)	206 / 176 / 127 / 93 (0.8 / 0.7 / 0.5 / 0.4)
	SOUND PRESSURE LEVEL (SH/H/M/L)					dBA	51 / 49 / 45 / 41	51 / 49 / 45 / 41
	UNIT DIMENSION	HEIGHT				mm/in	378 / 14.9	378 / 14.9
		WIDTH				mm/in	1045 / 41.1	1045 / 41.1
		DEPTH				mm/in	541 / 21.3	541 / 21.3
	PACKING DIMENSION	HEIGHT				mm/in	415 / 16.3	415 / 16.3
		WIDTH				mm/in	1245 / 49.0	1245 / 49.0
		DEPTH				mm/in	631 / 24.8	631 / 24.8
	UNIT WEIGHT					kg/lb	42 / 93	42 / 93
	CONDENSATE DRAIN SIZE					mm/in	19 / 3/4	19 / 3/4
OUTDOOR UNIT	AIR FLOW					l/s / CFM	1338 / 2836	1567 / 3320
	SOUND PRESSURE LEVEL					dBA	64	67
	UNIT DIMENSION	HEIGHT				mm/in	841 / 33.1	984 / 38.7
		WIDTH				mm/in	572 / 22.5	762 / 30.0
		DEPTH				mm/in	572 / 22.5	762 / 30.0
	PACKING DIMENSION	HEIGHT				mm/in	950 / 37.4	1090 / 42.9
		WIDTH				mm/in	660 / 26.0	860 / 33.9
		DEPTH				mm/in	660 / 26.0	860 / 33.9
	UNIT WEIGHT					kg/lb	70 / 154	93 / 205
	PIPE CONNECTION	TYPE					BRAZED VALVE	BRAZED VALVE
		SIZE	LIQUID			mm/in	9.5 / 3/8	9.5 / 3/8
			GAS			mm/in	15.9 / 5/8	19 / 3/4
REFRIGERANT CHARGE						kg/lb	2.7 / 5.8	3.5 / 7.7

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO GB/D17758 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW THE CENTRE OF THE UNIT.

General Data - Cooling Only (R22)

MODEL		INDOOR UNIT			MCC050C	MCC060C
		OUTDOOR UNIT			MVCU050A	MVCU060A
NOMINAL CAPACITY				Btu/h	49000	57000
				W	14361	16706
NOMINAL TOTAL INPUT POWER				W	4624	5376
NOMINAL RUNNING CURRENT				A	8.7	9.4
POWER SOURCE				V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
EER				W/W	3.35	3.34
REFRIGERANT TYPE					R22	R22
REFRIGERANT CONTROL (EXPANSION DEVICE)					INDOOR CAP. TUBE	INDOOR CAP. TUBE
INDOOR UNIT	CONTROL	AIR DISCHARGE			DUCTED	DUCTED
		OPERATION			SLM WIRED HANDSET	SLM WIRED HANDSET
	AIR FLOW	SUPER HIGH		l/s / CFM	750 / 1590	779 / 1650
		HIGH		l/s / CFM	651 / 1380	722 / 1530
		MEDIUM		l/s / CFM	604 / 1280	675 / 1430
		LOW		l/s / CFM	571 / 1210	609 / 1290
	EXTERNAL STATIC PRESSURE (SH/H/M/L)			Pa / in.wg.	176 / 157 / 137 / 108 (0.7 / 0.6 / 0.6 / 0.4)	176 / 157 / 137 / 98 (0.7 / 0.6 / 0.6 / 0.4)
	SOUND PRESSURE LEVEL (SH/H/M/L)			dBA	53 / 52 / 50 /47	55 / 53 / 50 / 47
	UNIT DIMENSION	HEIGHT		mm/in	378 / 14.9	378 / 14.9
		WIDTH		mm/in	1299 / 51.1	1499 / 59.0
		DEPTH		mm/in	541 / 21.3	541 / 21.3
	PACKING DIMENSION	HEIGHT		mm/in	415 / 16.3	415 / 16.3
		WIDTH		mm/in	1497 / 59.0	1701 / 67.0
		DEPTH		mm/in	631 / 24.8	631 / 24.8
	UNIT WEIGHT			kg/lb	54 / 119	62 / 137
	CONDENSATE DRAIN SIZE			mm/in	19 / 3/4	19 / 3/4
OUTDOOR UNIT	AIR FLOW			l/s / CFM	1944 / 4120	1944 / 4120
	SOUND PRESSURE LEVEL			dBA	61	63
	UNIT DIMENSION	HEIGHT		mm/in	1086 / 42.8	1086 / 42.8
		WIDTH		mm/in	762 / 30.0	762 / 30.0
		DEPTH		mm/in	762 / 30.0	762 / 30.0
	PACKING DIMENSION	HEIGHT		mm/in	1190 / 46.9	1190 / 46.9
		WIDTH		mm/in	860 / 33.9	860 / 33.9
		DEPTH		mm/in	860 / 33.9	860 / 33.9
	UNIT WEIGHT			kg/lb	100 / 220	102 / 225
	PIPE CONNECTION	TYPE			BRAZED VALVE	BRAZED VALVE
		SIZE	LIQUID	mm/in	9.5 / 3/8	12.7 / 1/2
			GAS	mm/in	19 / 3/4	19 / 3/4
REFRIGERANT CHARGE				kg/lb	3.8 / 8.3	4.0 / 8.8

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COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
4) SOUND PRESSURE LEVEL ARE ACCORDING TO GB/D17758 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW THE CENTRE OF THE UNIT.

Component Data (R22)

MODEL	INDOOR UNIT			MWM025G	MWM030F
	OUTDOOR UNIT			MVCU025A	MVCU030A
INDOOR FAN	TYPE			CROSS FLOW FAN	ANTI FUNGUS CROSS FLOW FAN
	QUANTITY			1	1
	MATERIAL			ACRYLO NITRILE STYRENE	ACRYLO NITRILE STYRENE
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	108 / 4.3	106 / 4.2
	LENGTH		mm/in	810 / 31.9	950 / 37.4
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP20	IP24
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			METAL	METAL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	450 / 18	450 / 18
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			CLASS F	CLASS F
COMPRESSOR	TYPE			ROTARY	SCROLL
	OIL TYPE			SUNISO 4GDID	MINERAL OIL
	OIL AMOUNT		cm^3 / fl.oz.	1130 / 38.2	1242 / 42.0
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.00 / 0.276	9.52 / 3/8
		THICKNESS	mm/in	0.28 / 0.011	0.35 / 0.013
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.27 / 2.900	0.29 / 3.130
		ROW		2	2
		FIN PER INCH		18	16
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	1.09 / 11.760	1.09 / 11.760
		ROW		1	1
		FIN PER INCH		18	20
AIR QUALITY	FILTER	TYPE		NANO FILTER	SARANET + IONIZER
		QUANTITY	pc	2	3 x 3
		SIZE LENGTH	mm/in	351 / 13.8	330 / 13.0
		SIZE WIDTH	mm/in	386 / 15.2	317 / 12.4
		SIZE THICKNESS	mm/in	1.5 / 0.06	1.8 / 0.07
CASING	INDOOR UNIT		MATERIAL	HIGH IMPACT POLYSTYRENE	ABS
			FINISHING	MAT	MAT
			COLOUR	LIGHT GREY	LIGHT GREY
	OUTDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data (R22)

MODEL	INDOOR UNIT			MCM025D	MCM030D
	OUTDOOR UNIT			MVCU025A	MVCU030A
INDOOR FAN	TYPE			CROSS FLOW FAN	CROSS FLOW FAN
	QUANTITY			2	3
	MATERIAL			ABS	ABS
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	146 / 5.7	146 / 5.7
	LENGTH		mm/in	200 / 7.9	200 / 7.9
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			N/A	N/A
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			METAL	METAL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	450 / 18	450 / 18
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			CLASS F	CLASS F
COMPRESSOR	TYPE			ROTARY	SCROLL
	OIL TYPE			SUNISO 4GDID	MINERAL OIL
	OIL AMOUNT		cm^3 / fl.oz.	1130 / 38.2	1242 / 42.0
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.30 / 0.012	0.30 / 0.012
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.19 / 2.060	0.24 / 2.580
		ROW		3	3
		FIN PER INCH		12	12
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	1.09 / 11.760	1.09 / 11.760
		ROW		1	1
		FIN PER INCH		18	20
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	2	2
		SIZE LENGTH	mm/in	544 / 21.4	544 / 21.4
		SIZE WIDTH	mm/in	270 / 10.6	270 / 10.6
		SIZE THICKNESS	mm/in	3.0 / 0.11	3.0 / 0.11
CASING	INDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY
	OUTDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data (R22)

MODEL	INDOOR UNIT			MCM040D	MCM040D
	OUTDOOR UNIT			MVCU035A	MVCU040A
INDOOR FAN	TYPE			CROSS FLOW FAN	CROSS FLOW FAN
	QUANTITY			4	4
	MATERIAL			ABS	ABS
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	146 / 5.7	146 / 5.7
	LENGTH		mm/in	200 / 7.9	200 / 7.9
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			N/A	N/A
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			METAL	METAL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	450 / 18	600 / 24
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			CLASS F	CLASS F
COMPRESSOR	TYPE			SCROLL	SCROLL
	OIL TYPE			MINERAL OIL	MINERAL OIL
	OIL AMOUNT		cm^3 / fl.oz.	1242 / 42.0	1360 / 46.0
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	SEAMLESS COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.30 / 0.012	0.30 / 0.012
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.36 / 3.950	0.36 / 3.950
		ROW		4	4
		FIN PER INCH		12	12
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	1.09 / 11.760	1.72 / 18.590
		ROW		1	1
		FIN PER INCH		22	22
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	2 + 1	2 + 1
		SIZE LENGTH	mm/in	544 + 494 / 21.4 + 19.4	544 + 494 / 21.4 + 19.4
		SIZE WIDTH	mm/in	270 / 10.6	270 / 10.6
		SIZE THICKNESS	mm/in	3.0 / 0.11	3.0 / 0.11
CASING	INDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY
	OUTDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data (R22)

MODEL	INDOOR UNIT			MCM050D	MCM062C
	OUTDOOR UNIT			MVCU050A	MVCU060A
INDOOR FAN	TYPE			CROSS FLOW FAN	CROSS FLOW FAN
	QUANTITY			4	4
	MATERIAL			ABS	ALU
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	146 / 5.7	160 / 6.3
	LENGTH		mm/in	200 / 7.9	202 / 8.0
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	2
	INDEX OF PROTECTION (IP)			N/A	N/A
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			METAL	METAL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	600 / 24	600 / 24
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			CLASS F	CLASS F
COMPRESSOR	TYPE			SCROLL	SCROLL
	OIL TYPE			MINERAL OIL	MINERAL OIL
	OIL AMOUNT		cm^3 / fl.oz.	1952 / 66.0	1774 / 60.0
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.30 / 0.012	0.30 / 0.012
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.36 / 3.950	0.42 / 4.510
		ROW		4	4
		FIN PER INCH		12	14
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	1.93 / 20.780	1.93 / 20.780
		ROW		1	1
		FIN PER INCH		22	22
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	2 + 3	2 + 3
		SIZE LENGTH	mm/in	500 + 400 / 19.6 + 15.7	500 + 400 / 19.6 + 15.7
		SIZE WIDTH	mm/in	285 / 11.2	285 / 11.2
		SIZE THICKNESS	mm/in	3.0 / 0.11	3.0 / 0.11
CASING	INDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY
	OUTDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data (R22)

MODEL	INDOOR UNIT			MCK025A	MCK030A
	OUTDOOR UNIT			MVCU025A	MVCU030A
INDOOR FAN	TYPE			TURBO FAN	TURBO FAN
	QUANTITY			1	1
	MATERIAL			ASG20	ASG20
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	450 / 17.7	450 / 17.7
	LENGTH		mm/in	170 / 6.7	170 / 6.7
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP22	IP22
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			METAL	METAL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	450 / 18	450 / 18
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			CLASS F	CLASS F
COMPRESSOR	TYPE			ROTARY	SCROLL
	OIL TYPE			SUNISO 4GDID	MINERAL OIL
	OIL AMOUNT		cm^3 / fl.oz.	1130 / 38.2	1242 / 42.0
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	SEAMLESS COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.47 / 5.022	0.47 / 5.022
		ROW		2	2
		FIN PER INCH		14	16
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	1.09 / 11.760	1.09 / 11.760
		ROW		1	1
		FIN PER INCH		18	20
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	1	1
		SIZE LENGTH	mm/in	576 / 22.7	576 / 22.7
		SIZE WIDTH	mm/in	556 / 21.9	556 / 21.9
		SIZE THICKNESS	mm/in	22.0 / 0.87	22.0 / 0.87
CASING	PANEL		MATERIAL	ABS	ABS
			FINISHING	N/A	N/A
			COLOUR	LIGHT GREY	LIGHT GREY
	INDOOR UNIT		MATERIAL	GALVANIZED IRON	GALVANIZED IRON
			FINISHING	WITH PE INSULATION	WITH PE INSULATION
			COLOUR	LIGHT GREY	LIGHT GREY
	OUTDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data (R22)

MODEL	INDOOR UNIT			MCK040A	MCK040A
	OUTDOOR UNIT			MVCU035A	MVCU040A
INDOOR FAN	TYPE			TURBO	TURBO
	QUANTITY			1	1
	MATERIAL			ASG20	ASG20
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	450 / 17.7	450 / 17.7
	LENGTH		mm/in	170 / 6.7	170 / 6.7
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			IP22	IP22
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			METAL	METAL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	450 / 18	600 / 24
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			CLASS F	CLASS F
COMPRESSOR	TYPE			SCROLL	SCROLL
	OIL TYPE			MINERAL OIL	MINERAL OIL
	OIL AMOUNT		cm^3 / fl.oz.	1242 / 42.0	1360 / 46.0
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.0 / 0.28	7.0 / 0.28
		THICKNESS	mm/in	0.28 / 0.011	0.28 / 0.011
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)	ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.47 / 5.022	0.47 / 5.022
		ROW		3	3
		FIN PER INCH		20	20
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	1.09 / 11.760	1.72 / 18.590
		ROW		1	1
		FIN PER INCH		22	22
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	1	2 + 1
		SIZE LENGTH	mm/in	576 / 22.7	544 + 494 / 21.4 + 19.4
		SIZE WIDTH	mm/in	556 / 21.9	270 / 10.6
		SIZE THICKNESS	mm/in	22.0 / 0.87	3.0 / 0.11
CASING	PANEL		MATERIAL	ABS	ABS
			FINISHING	N/A	N/A
			COLOUR	LIGHT GREY	LIGHT GREY
	INDOOR UNIT		MATERIAL	GALVANIZED IRON	GALVANIZED IRON
			FINISHING	WITH PE INSULATION	WITH PE INSULATION
			COLOUR	LIGHT GREY	LIGHT GREY
	OUTDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data (R22)

MODEL	INDOOR UNIT			MCK050A
	OUTDOOR UNIT			MVCU050A
INDOOR FAN	TYPE			TURBO
	QUANTITY			1
	MATERIAL			ASG20
	DRIVE			DIRECT
	DIAMETER		mm/in	450 / 17.7
	LENGTH		mm/in	170 / 6.7
INDOOR FAN MOTOR	TYPE			INDUCTION
	QUANTITY			1
	INDEX OF PROTECTION (IP)			IP22
OUTDOOR FAN	TYPE			PROPELLER
	QUANTITY			1
	MATERIAL			METAL
	DRIVE			DIRECT
	DIAMETER		mm/in	600 / 24
OUTDOOR FAN MOTOR	TYPE			INDUCTION
	QUANTITY			1
	INDEX OF PROTECTION (IP)			CLASS F
COMPRESSOR	TYPE			SCROLL
	OIL TYPE			MINERAL OIL
	OIL AMOUNT		cm^3 / fl.oz.	1952 / 66.0
INDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	7.0 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL		ALUMINIUM (HYDROPHILIC FIN)
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m^2/ft^2	0.47 / 5.022
		ROW		3
		FIN PER INCH		20
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m^2/ft^2	1.93 / 20.780
		ROW		1
		FIN PER INCH		22
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER
		QUANTITY	pc	1
		SIZE LENGTH	mm/in	576 / 22.7
		SIZE WIDTH	mm/in	556 / 21.9
		SIZE THICKNESS	mm/in	22.0 / 0.87
CASING	PANEL		MATERIAL	ABS
			FINISHING	N/A
			COLOUR	LIGHT GREY
	INDOOR UNIT		MATERIAL	GALVANIZED IRON
			FINISHING	WITH PE INSULATION
			COLOUR	LIGHT GREY
	OUTDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER
			COLOUR	LIGHT GREY

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Component Data (R22)

MODEL	INDOOR UNIT				MCC025C	MCC030C
	OUTDOOR UNIT				MVCU025A	MVCU030A
INDOOR FAN	TYPE				CENTRIFUGAL	CENTRIFUGAL
	QUANTITY				2	2
	MATERIAL				GALVANIZED STEEL	GALVANIZED STEEL
	DRIVE				DIRECT	DIRECT
	DIAMETER			mm/in	160 / 6.3	214 / 8.4
	LENGTH			mm/in	202 / 7.9	203 / 8.0
INDOOR FAN MOTOR	TYPE				INDUCTION	INDUCTION
	QUANTITY				1	1
	INDEX OF PROTECTION (IP)				N/A	N/A
OUTDOOR FAN	TYPE				PROPELLER	PROPELLER
	QUANTITY				1	1
	MATERIAL				METAL	METAL
	DRIVE				DIRECT	DIRECT
	DIAMETER			mm/in	450 / 18	450 / 18
OUTDOOR FAN MOTOR	TYPE				INDUCTION	INDUCTION
	QUANTITY				1	1
	INDEX OF PROTECTION (IP)				CLASS F	CLASS F
COMPRESSOR	TYPE				ROTARY	SCROLL
	OIL TYPE				SUNISO 4GDID	MINERAL OIL
	OIL AMOUNT			cm^3 / fl.oz.	1130 / 38.2	1242 / 42.0
INDOOR COIL	TUBE	MATERIAL			SEAMLESS INNER GROOVE COPPER	SEAMLESS COPPER
		DIAMETER		mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS		mm/in	0.33 / 0.013	0.36 / 0.014
	FIN	MATERIAL			ALUMINIUM (CORR. FIN)	ALUMINIUM (CORR. FIN)
		THICKNESS		mm/in	0.11 / 0.004	0.13 / 0.005
		FACE AREA		m^2/ft^2	0.20 / 2.187	0.28 / 2.980
		ROW			3	3
		FIN PER INCH			12	12
OUTDOOR COIL	TUBE	MATERIAL			SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER		mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS		mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL			ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS		mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA		m^2/ft^2	1.09 / 11.760	1.09 / 11.760
		ROW			1	1
		FIN PER INCH			18	20
AIR QUALITY	FILTER	TYPE			WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY		pc	1	2
		SIZE	LENGTH	mm/in	995 / 39.2	449 / 17.7
			WIDTH	mm/in	195 / 7.7	305 / 12.0
			THICKNESS	mm/in	5.0 / 0.20	5.0 / 0.20
CASING	INDOOR UNIT			MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
				FINISHING	WITH PE INSULATION	WITH PE INSULATION
				COLOUR	WITHOUT POWDER PAINT	WITHOUT POWDER PAINT
	OUTDOOR UNIT			MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
				FINISHING	POLYESTER POWDER	POLYESTER POWDER
				COLOUR	LIGHT GREY	LIGHT GREY

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Component Data (R22)

MODEL	INDOOR UNIT			MCC040C	MCC040C
	OUTDOOR UNIT			MVCU035A	MVCU040A
INDOOR FAN	TYPE			CENTRIFUGAL	CENTRIFUGAL
	QUANTITY			2	2
	MATERIAL			GALVANIZED STEEL	GALVANIZED STEEL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	214 / 8.4	214 / 8.4
	LENGTH		mm/in	203 / 8.0	203 / 8.0
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			N/A	N/A
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			METAL	METAL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	450 / 18	600 / 24
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			CLASS F	CLASS F
COMPRESSOR	TYPE			SCROLL	SCROLL
	OIL TYPE			MINERAL OIL	MINERAL OIL
	OIL AMOUNT		cm^3 / fl.oz.	1242 / 42.0	1360 / 46.0
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	SEAMLESS COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.36 / 0.014	0.36 / 0.014
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	ALUMINIUM (CORR. FIN)
		THICKNESS	mm/in	0.13 / 0.005	0.13 / 0.005
		FACE AREA	m^2/ft^2	0.31 / 3.440	0.31 / 3.440
		ROW		3	3
		FIN PER INCH		14	14
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	1.09 / 11.760	1.72 / 18.590
		ROW		1	1
		FIN PER INCH		22	22
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	2	2
		SIZE LENGTH	mm/in	507 / 20.0	507 / 20.0
		SIZE WIDTH	mm/in	305 / 12.0	305 / 12.0
		SIZE THICKNESS	mm/in	5..0 / 0.20	5..0 / 0.20
CASING	INDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	WITH PE INSULATION	WITH PE INSULATION
			COLOUR	WITHOUT POWDER PAINT	WITHOUT POWDER PAINT
	OUTDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Component Data (R22)

MODEL	INDOOR UNIT			MCC050C	MCC060C
	OUTDOOR UNIT			MVCU050A	MVCU060A
INDOOR FAN	TYPE			CENTRIFUGAL	CENTRIFUGAL
	QUANTITY			2	2
	MATERIAL			GALVANIZED STEEL	GALVANIZED STEEL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	214 / 8.4	214 / 8.4
	LENGTH		mm/in	203 / 8.0	203 / 8.0
INDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			N/A	N/A
OUTDOOR FAN	TYPE			PROPELLER	PROPELLER
	QUANTITY			1	1
	MATERIAL			METAL	METAL
	DRIVE			DIRECT	DIRECT
	DIAMETER		mm/in	600 / 24	600 / 24
OUTDOOR FAN MOTOR	TYPE			INDUCTION	INDUCTION
	QUANTITY			1	1
	INDEX OF PROTECTION (IP)			CLASS F	CLASS F
COMPRESSOR	TYPE			SCROLL	SCROLL
	OIL TYPE			MINERAL OIL	MINERAL OIL
	OIL AMOUNT		cm^3 / fl.oz.	1952 / 66.0	1774 / 60.0
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	SEAMLESS COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (CORR. FIN)	ALUMINIUM (CORR. FIN)
		THICKNESS	mm/in	0.13 / 0.005	0.13 / 0.005
		FACE AREA	m^2/ft^2	0.40 / 4.400	0.47 / 5.160
		ROW		3	3
		FIN PER INCH		14	14
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS INNER GROOVE COPPER	SEAMLESS INNER GROOVE COPPER
		DIAMETER	mm/in	9.52 / 3/8	9.52 / 3/8
		THICKNESS	mm/in	0.35 / 0.014	0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM (SLIT FIN)	ALUMINIUM (SLIT FIN)
		THICKNESS	mm/in	0.11 / 0.004	0.11 / 0.004
		FACE AREA	m^2/ft^2	1.93 / 20.780	1.93 / 20.780
		ROW		1	1
		FIN PER INCH		22	22
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	WASHABLE SARANET FILTER
		QUANTITY	pc	2	2
		SIZE LENGTH	mm/in	634 / 25.0	734 / 28.9
		SIZE WIDTH	mm/in	305 / 12.0	305 / 12.0
		SIZE THICKNESS	mm/in	5.0 / 0.20	5.0 / 0.20
CASING	INDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	WITH PE INSULATION	WITH PE INSULATION
			COLOUR	WITHOUT POWDER PAINT	WITHOUT POWDER PAINT
	OUTDOOR UNIT		MATERIAL	GALVANIZED MILD STEEL	GALVANIZED MILD STEEL
			FINISHING	POLYESTER POWDER	POLYESTER POWDER
			COLOUR	LIGHT GREY	LIGHT GREY

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Safety Devices

MODEL	INDOOR UNIT			MWM025G	MWM030F
	OUTDOOR UNIT			MVCU025A	MVCU030A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	2940
		CLOSE	kPa / psi	N/A	2410
	LOW PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	124
		CLOSE	kPa / psi	N/A	193
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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MODEL	INDOOR UNIT			MCM025D	MCM030D
	OUTDOOR UNIT			MVCU025A	MVCU030A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	2940
		CLOSE	kPa / psi	N/A	2410
	LOW PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	124
		CLOSE	kPa / psi	N/A	193
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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MODEL	INDOOR UNIT			MCM040D	MCM040D
	OUTDOOR UNIT			MVCU035A	MVCU040A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	2940	2940
		CLOSE	kPa / psi	2410	2410
	LOW PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	124	124
		CLOSE	kPa / psi	193	193
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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MODEL	INDOOR UNIT			MCM050D	MCM062C
	OUTDOOR UNIT			MVCU050A	MVCU060A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	2940	2940
		CLOSE	kPa / psi	2410	2410
	LOW PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	124	124
		CLOSE	kPa / psi	193	193
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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Safety Devices

MODEL	INDOOR UNIT			MCK025A	MCK030A
	OUTDOOR UNIT			MVCU025A	MVCU030A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	2940
		CLOSE	kPa / psi	N/A	2410
	LOW PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	124
		CLOSE	kPa / psi	N/A	193
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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MODEL	INDOOR UNIT			MCK040A	MCK040A
	OUTDOOR UNIT			MVCU035A	MVCU040A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	2940	2940
		CLOSE	kPa / psi	2410	2410
	LOW PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	124	124
		CLOSE	kPa / psi	193	193
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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MODEL	INDOOR UNIT			MCK050A
	OUTDOOR UNIT			MVCU050A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	2940
		CLOSE	kPa / psi	2410
	LOW PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	124
		CLOSE	kPa / psi	193
	PHASE SEQUENCER			N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A

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MODEL	INDOOR UNIT			MCC025C	MCC030C
	OUTDOOR UNIT			MVCU025A	MVCU030A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	2940
		CLOSE	kPa / psi	N/A	2410
	LOW PRESSURE SWITCH	TYPE		N/A	NC
		OPEN	kPa / psi	N/A	124
		CLOSE	kPa / psi	N/A	193
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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Safety Devices

MODEL	INDOOR UNIT			MCC040C	MCC040C
	OUTDOOR UNIT			MVCU035A	MVCU040A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	2940	2940
		CLOSE	kPa / psi	2410	2410
	LOW PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	124	124
		CLOSE	kPa / psi	193	193
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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MODEL	INDOOR UNIT			MCC050C	MCC060C
	OUTDOOR UNIT			MVCU050A	MVCU060A
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	2940	2940
		CLOSE	kPa / psi	2410	2410
	LOW PRESSURE SWITCH	TYPE		NC	NC
		OPEN	kPa / psi	124	124
		CLOSE	kPa / psi	193	193
	PHASE SEQUENCER			N/A	N/A
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	N/A

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Performance Data

Calculation Steps

Interpolation and Extrapolation method can be used to get the total capacity, TC and sensible capacity, SC at those temperatures which are not stated out in the table.

Example:

Model: MWM025G - MVCU025A
Indoor Condition: 23°C DB, 15°C WB
Outdoor Condition: 37°C DB

Solution:

Overall
Based on the Performance Table

1. Refer to the Indoor DB column,
   - **23°C** is located between 20°C and 24°C (Thus, Interpolation need to be applied)
2. Refer to the Indoor WB column,
   - **15°C** only available in the case of Indoor DB = 20°C. (Thus, Extrapolation between 16°C WB and 17°C WB during 24°C indoor DB is required)
3. Refer to the Outdoor DB column,
   - **37°C** is located between 35°C and 40°C. (Thus, Interpolation need to be applied)

Please follow the steps below in order to get the required capacity.

1st Step
Extrapolation of Indoor WB

Find TC, SC for
(a) Indoor: 24°C DB, 15°C WB
Outdoor: 35°C DB

(b) Indoor: 24°C DB, 15°C WB
Outdoor: 40°C DB

⇨

2nd Step
Interpolation of Indoor DB

Find TC, SC for
(a) Indoor: 23°C DB, 15°C WB
Outdoor: 35°C DB

(b) Indoor: 23°C DB, 15°C WB
Outdoor: 40°C DB

⇨

3rd Step
Interpolation of Outdoor DB

Find TC, SC for
(a) Indoor: 23°C DB, 15°C WB
Outdoor: 37°C DB

Details:

1st Step:

To obtain the Total capacity and Sensible capacity for

(a) Indoor Condition: 24°C DB, 15°C WB
Outdoor Condition: 35°C DB

Indoor DB˚C	Indoor WB˚C	Outdoor DB, ˚C			
			35		
			TC (kW)	SC (kW)	
			⋮	⋮	
24	15	.....	x_1	y_1	
	16		6.211	4.475	
	17		6.452	4.227	

Total capacity, TC

$\Rightarrow x_1$ = 5.970kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 35°C Outdoor WB)**

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17^{o}\,C - 15^{o}\,C}{17^{o}\,C - 16^{o}\,C} = \frac{4.227kW - y_1}{4.227kW - 4.475kW}$$

$\Rightarrow y_1$ = 4.723kW

(b) Indoor Condition: 24°C DB, 15°C WB
Outdoor Condition: 40°C DB

Indoor DB˚C	Indoor WB˚C	Outdoor DB, ˚C			
			40		
			TC (kW)	SC (kW)	
			⋮	⋮	
24	15	.....	x_2	y_2	
	16		5.818	4.216	
	17		6.027	3.999	

Total capacity, TC

$\Rightarrow x_2$ = 5.610kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 40°C Outdoor WB)**

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{17^{o}\,C - 15^{o}\,C}{17^{o}\,C - 16^{o}\,C} = \frac{3.999kW - y_2}{3.999kW - 4.216kW}$$

$\Rightarrow y_2$ = 4.433kW

** This is due to 2 different conditions with same WB temperature, will have the same level of enthalpy. For more details, please refer to psychrometrics chart*

2nd Step:

To obtain the Total capacity and Sensible capacity for

(a) Indoor Condition: 23°C DB, 15°C WB
Outdoor Condition: 35°C DB

Indoor DB˚C	Indoor WB˚C	Outdoor DB, ˚C			
			35		
			TC (kW)	SC (kW)	
			⋮	⋮	
20	**15**		5.970	3.666	
23	**15**	.....	x_3	y_3	
24	**15**		5.970	4.723	

Total capacity, TC

$\Rightarrow x_3$ = 5.970kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 35°C Outdoor WB)**

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{24^{o}\,C - 20^{o}\,C}{24^{o}\,C - 23^{o}\,C} = \frac{4.723kW - 3.666kW}{4.723kW - y_3}$$

$\Rightarrow y_3$ = 4.459kW

(b) Indoor Condition: 23°C DB, 15°C WB
Outdoor Condition: 40°C DB

Indoor DB˚C	Indoor WB˚C	Outdoor DB, ˚C			
			40		
			TC (kW)	SC (kW)	
			⋮	⋮	
20	**15**		5.610	3.376	
23	**15**	.....	x_4	y_4	
24	**15**		5.610	4.433	

Total capacity, TC

$\Rightarrow x_4$ = 5.610kW *(Same as Total capacity at 20°C Indoor DB / 15°C Indoor WB & 40°C Outdoor WB)**

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{24^{o}\,C - 20^{o}\,C}{24^{o}\,C - 23^{o}\,C} = \frac{4.433kW - 3.376kW}{4.433kW - y_1}$$

$\Rightarrow y_4$ = 4.169kW

** This is due to 2 different conditions with same WB temperature, will have the same level of enthalpy. For more details, please refer to psychrometrics chart*

3rd Step:

To obtain the Total capacity and Sensible capacity for
(a) Indoor Condition: 23°C DB, 15°C WB
Outdoor Condition: 37°C DB

Indoor DB˚C	Indoor WB˚C	Outdoor DB, ˚C						
			35		37		40	
			TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
			⋮	⋮	⋮	⋮	⋮	⋮
23	**15**	.....	5.970	4.459	x	y	5.610	4.169

Total capacity, TC

Extrapolation Method:

$$\Rightarrow \frac{40^{o}\,C - 35^{o}\,C}{40^{o}\,C - 37^{o}\,C} = \frac{5.610kW - 5.970kW}{5.610kW - x}$$

$\Rightarrow x = 5.826kW$

Sensible capacity, SC

Extrapolation Method:

$$\Rightarrow \frac{40^{o}\,C - 35^{o}\,C}{40^{o}\,C - 37^{o}\,C} = \frac{4.169kW - 3.459kW}{4.169kW - y}$$

$\Rightarrow y = 4.343kW$

Performance Table

Cooling Only (R22)

Model: MWM025G - MVCU025A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	7.052	4.538	6.691	4.247	6.331	3.957	5.970	3.666	5.610	3.376	5.177	3.027	4.889	2.794	4.745	2.678
	16	7.390	4.196	6.997	3.936	6.604	3.677	6.211	3.418	5.818	3.159	5.347	2.848	5.033	2.641	4.875	2.537
24	16	7.390	5.252	6.997	4.993	6.604	4.734	6.211	4.475	5.818	4.216	5.347	3.905	5.033	3.697	4.875	3.594
	17	7.728	4.910	7.302	4.682	6.877	4.455	6.452	4.227	6.027	3.999	5.516	3.726	5.176	3.543	5.006	3.452
	18	8.066	4.568	7.608	4.372	7.150	4.175	6.693	3.979	6.235	3.782	5.686	3.547	5.319	3.389	5.136	3.311
	19	8.404	4.226	7.914	4.061	7.423	3.896	6.933	3.731	6.443	3.566	5.855	3.367	5.463	3.235	5.267	3.169
	20	8.742	3.883	8.224	3.743	7.705	3.604	7.187	3.464	6.668	3.324	6.046	3.156	5.631	3.044	5.424	2.988
28	18	8.066	5.625	7.608	5.429	7.150	5.232	6.693	5.036	6.235	4.839	5.686	4.603	5.319	4.446	5.136	4.368
	19	8.404	5.283	7.914	5.118	7.423	4.953	6.933	4.788	6.443	4.622	5.855	4.424	5.463	4.292	5.267	4.226
	20	8.742	4.940	8.224	4.800	7.705	4.660	7.187	4.521	6.668	4.381	6.046	4.213	5.631	4.101	5.424	4.045
	21	9.081	4.597	8.537	4.478	7.993	4.359	7.449	4.241	6.905	4.122	6.252	3.980	5.816	3.885	5.599	3.837
	22	9.420	4.254	8.850	4.156	8.280	4.059	7.710	3.961	7.141	3.864	6.457	3.747	6.001	3.669	5.773	3.630
	23	9.759	3.910	9.163	3.834	8.568	3.758	7.972	3.681	7.377	3.605	6.663	3.514	6.186	3.453	5.948	3.422
	24	10.097	3.567	9.476	3.512	8.855	3.457	8.234	3.402	7.613	3.347	6.868	3.281	6.371	3.237	6.123	3.215
30	20	8.742	5.469	8.224	5.329	7.705	5.189	7.187	5.049	6.668	4.909	6.046	4.741	5.631	4.629	5.424	4.573
	21	9.081	5.125	8.537	5.007	7.993	4.888	7.449	4.769	6.905	4.651	6.252	4.508	5.816	4.413	5.599	4.366
	22	9.420	4.782	8.850	4.684	8.280	4.587	7.710	4.490	7.141	4.392	6.457	4.275	6.001	4.197	5.773	4.158
	23	9.759	4.439	9.163	4.362	8.568	4.286	7.972	4.210	7.377	4.134	6.663	4.042	6.186	3.981	5.948	3.951
	24	10.097	4.095	9.476	4.040	8.855	3.985	8.234	3.930	7.613	3.875	6.868	3.809	6.371	3.765	6.123	3.743
														HIGH AMBIENT			

Model: MWM030F - MVCU030A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	8.415	5.514	8.031	5.184	7.648	4.853	7.264	4.523	6.881	4.192	6.420	3.795	6.113	3.531	5.960	3.399
	16	8.858	5.224	8.434	4.901	8.010	4.579	7.586	4.256	7.162	3.934	6.654	3.547	6.315	3.289	6.145	3.160
24	16	8.858	6.474	8.434	6.152	8.010	5.830	7.586	5.507	7.162	5.185	6.654	4.798	6.315	4.540	6.145	4.411
	17	9.300	6.184	8.836	5.870	8.372	5.555	7.908	5.241	7.444	4.926	6.887	4.549	6.516	4.297	6.330	4.172
	18	9.743	5.894	9.239	5.587	8.734	5.281	8.230	4.974	7.726	4.668	7.121	4.300	6.717	4.055	6.515	3.932
	19	10.186	5.603	9.641	5.305	9.097	5.007	8.552	4.708	8.008	4.410	7.354	4.052	6.918	3.813	6.700	3.693
	20	10.629	5.313	10.043	5.023	9.457	4.734	8.871	4.444	8.285	4.154	7.582	3.807	7.114	3.575	6.879	3.459
28	18	9.743	7.145	9.239	6.838	8.734	6.532	8.230	6.225	7.726	5.919	7.121	5.551	6.717	5.306	6.515	5.183
	19	10.186	6.854	9.641	6.556	9.097	6.257	8.552	5.959	8.008	5.660	7.354	5.302	6.918	5.064	6.700	4.944
	20	10.629	6.564	10.043	6.274	9.457	5.985	8.871	5.695	8.285	5.405	7.582	5.057	7.114	4.826	6.879	4.710
	21	11.071	6.274	10.444	5.993	9.816	5.713	9.188	5.432	8.560	5.152	7.807	4.815	7.305	4.591	7.054	4.478
	22	11.514	5.984	10.844	5.712	10.175	5.441	9.505	5.170	8.835	4.898	8.032	4.573	7.496	4.356	7.228	4.247
	23	11.957	5.693	11.245	5.431	10.533	5.169	9.822	4.907	9.110	4.645	8.257	4.330	7.687	4.121	7.403	4.016
	24	12.399	5.403	11.646	5.150	10.892	4.897	10.139	4.644	9.385	4.391	8.481	4.088	7.879	3.886	7.577	3.784
30	20	10.629	7.189	10.043	6.900	9.457	6.610	8.871	6.320	8.285	6.030	7.582	5.683	7.114	5.451	6.879	5.335
	21	11.071	6.899	10.444	6.619	9.816	6.338	9.188	6.058	8.560	5.777	7.807	5.440	7.305	5.216	7.054	5.104
	22	11.514	6.609	10.844	6.338	10.175	6.066	9.505	5.795	8.835	5.524	8.032	5.198	7.496	4.981	7.228	4.872
	23	11.957	6.319	11.245	6.057	10.533	5.795	9.822	5.532	9.110	5.270	8.257	4.956	7.687	4.746	7.403	4.641
	24	12.399	6.029	11.646	5.776	10.892	5.523	10.139	5.270	9.385	5.017	8.481	4.713	7.879	4.511	7.577	4.410
														HIGH AMBIENT			

Cooling Only (R22)

Model: MCM025D - MVCU025A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	7.338	4.842	6.953	4.465	6.568	4.088	6.183	3.711	5.797	3.334	5.335	2.882	5.027	2.580	4.872	2.429
	16	7.581	4.574	7.190	4.199	6.800	3.824	6.409	3.450	6.019	3.075	5.550	2.625	5.238	2.326	5.082	2.176
24	16	7.581	5.729	7.190	5.354	6.800	4.979	6.409	4.605	6.019	4.230	5.550	3.780	5.238	3.481	5.082	3.331
	17	7.823	5.460	7.427	5.088	7.032	4.715	6.636	4.343	6.240	3.971	5.766	3.524	5.449	3.226	5.291	3.077
	18	8.065	5.191	7.664	4.821	7.263	4.452	6.863	4.082	6.462	3.712	5.981	3.268	5.660	2.972	5.500	2.824
	19	8.307	4.923	7.901	4.555	7.495	4.188	7.089	3.820	6.684	3.453	6.196	3.012	5.872	2.718	5.709	2.571
	20	8.549	4.656	8.131	4.304	7.714	3.951	7.296	3.599	6.879	3.247	6.378	2.824	6.044	2.543	5.877	2.402
28	18	8.065	6.346	7.664	5.976	7.263	5.607	6.863	5.237	6.462	4.867	5.981	4.423	5.660	4.127	5.500	3.979
	19	8.307	6.078	7.901	5.710	7.495	5.343	7.089	4.975	6.684	4.608	6.196	4.167	5.872	3.873	5.709	3.726
	20	8.549	5.811	8.131	5.459	7.714	5.106	7.296	4.754	6.879	4.402	6.378	3.979	6.044	3.698	5.877	3.557
	21	8.789	5.545	8.356	5.216	7.923	4.888	7.490	4.560	7.057	4.232	6.537	3.838	6.191	3.575	6.018	3.444
	22	9.030	5.279	8.582	4.974	8.133	4.670	7.684	4.366	7.235	4.062	6.697	3.697	6.338	3.453	6.158	3.332
	23	9.271	5.013	8.807	4.732	8.342	4.452	7.878	4.172	7.413	3.892	6.856	3.555	6.484	3.331	6.298	3.219
	24	9.512	4.747	9.032	4.490	8.552	4.234	8.071	3.978	7.591	3.722	7.015	3.414	6.631	3.209	6.439	3.107
30	20	8.549	6.388	8.131	6.036	7.714	5.684	7.296	5.332	6.879	4.979	6.378	4.557	6.044	4.275	5.877	4.134
	21	8.789	6.122	8.356	5.794	7.923	5.466	7.490	5.138	7.057	4.809	6.537	4.415	6.191	4.153	6.018	4.022
	22	9.030	5.856	8.582	5.552	8.133	5.248	7.684	4.943	7.235	4.639	6.697	4.274	6.338	4.031	6.158	3.909
	23	9.271	5.590	8.807	5.310	8.342	5.030	7.878	4.749	7.413	4.469	6.856	4.133	6.484	3.909	6.298	3.797
	24	9.512	5.324	9.032	5.068	8.552	4.812	8.071	4.555	7.591	4.299	7.015	3.992	6.631	3.787	6.439	3.684
														HIGH AMBIENT			

Model: MCM030D - MVCU030A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	9.197	6.297	8.678	5.851	8.159	5.406	7.640	4.961	7.121	4.516	6.499	3.982	6.084	3.626	5.876	3.448
	16	9.549	5.923	9.003	5.517	8.457	5.112	7.910	4.706	7.364	4.301	6.709	3.814	6.272	3.489	6.053	3.327
24	16	9.549	7.177	9.003	6.771	8.457	6.366	7.910	5.960	7.364	5.555	6.709	5.068	6.272	4.743	6.053	4.581
	17	9.901	6.803	9.328	6.437	8.754	6.071	8.180	5.705	7.607	5.339	6.918	4.900	6.459	4.607	6.230	4.461
	18	10.253	6.430	9.652	6.103	9.051	5.777	8.450	5.450	7.849	5.124	7.128	4.732	6.647	4.471	6.407	4.340
	19	10.605	6.056	9.977	5.769	9.349	5.482	8.720	5.195	8.092	4.909	7.338	4.564	6.835	4.335	6.584	4.220
	20	10.958	5.681	10.308	5.420	9.658	5.159	9.008	4.898	8.359	4.637	7.579	4.324	7.059	4.115	6.799	4.011
28	18	10.253	7.684	9.652	7.357	9.051	7.031	8.450	6.704	7.849	6.378	7.128	5.986	6.647	5.725	6.407	5.594
	19	10.605	7.310	9.977	7.023	9.349	6.736	8.720	6.449	8.092	6.162	7.338	5.818	6.835	5.589	6.584	5.474
	20	10.958	6.935	10.308	6.674	9.658	6.413	9.008	6.152	8.359	5.891	7.579	5.578	7.059	5.369	6.799	5.265
	21	11.311	6.558	10.644	6.314	9.976	6.070	9.309	5.826	8.641	5.582	7.840	5.289	7.306	5.094	7.039	4.996
	22	11.665	6.182	10.979	5.955	10.294	5.728	9.609	5.500	8.924	5.273	8.102	5.000	7.554	4.819	7.280	4.728
	23	12.018	5.806	11.315	5.595	10.612	5.385	9.910	5.174	9.207	4.964	8.364	4.712	7.801	4.543	7.520	4.459
	24	12.371	5.429	11.651	5.236	10.930	5.042	10.210	4.849	9.490	4.655	8.625	4.423	8.049	4.268	7.761	4.191
30	20	10.958	7.562	10.308	7.301	9.658	7.040	9.008	6.779	8.359	6.518	7.579	6.205	7.059	5.996	6.799	5.892
	21	11.311	7.185	10.644	6.941	9.976	6.697	9.309	6.453	8.641	6.209	7.840	5.916	7.306	5.721	7.039	5.623
	22	11.665	6.809	10.979	6.582	10.294	6.354	9.609	6.127	8.924	5.900	8.102	5.627	7.554	5.445	7.280	5.355
	23	12.018	6.433	11.315	6.222	10.612	6.012	9.910	5.801	9.207	5.591	8.364	5.339	7.801	5.170	7.520	5.086
	24	12.371	6.056	11.651	5.863	10.930	5.669	10.210	5.476	9.490	5.282	8.625	5.050	8.049	4.895	7.761	4.818
														HIGH AMBIENT			

Cooling Only (R22)

Model: MCM040D - MVCU035A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	11.603	7.914	10.871	7.221	10.139	6.529	9.407	5.836	8.675	5.144	7.797	4.313	7.211	3.759	6.918	3.482
	16	11.714	7.359	11.025	6.746	10.336	6.133	9.647	5.520	8.958	4.907	8.131	4.171	7.580	3.681	7.304	3.435
24	16	11.714	9.130	11.025	8.517	10.336	7.904	9.647	7.291	8.958	6.678	8.131	5.942	7.580	5.452	7.304	5.207
	17	11.826	8.575	11.180	8.042	10.533	7.508	9.887	6.974	9.241	6.441	8.465	5.800	7.948	5.373	7.690	5.160
	18	11.938	8.020	11.334	7.566	10.731	7.112	10.127	6.658	9.524	6.203	8.800	5.658	8.317	5.295	8.075	5.113
	19	12.049	7.465	11.489	7.090	10.928	6.716	10.367	6.341	9.807	5.966	9.134	5.516	8.685	5.216	8.461	5.066
	20	12.159	6.907	11.627	6.588	11.095	6.268	10.563	5.948	10.031	5.628	9.392	5.245	8.966	4.989	8.754	4.861
28	18	11.938	9.792	11.334	9.337	10.731	8.883	10.127	8.429	9.524	7.975	8.800	7.430	8.317	7.066	8.075	6.885
	19	12.049	9.237	11.489	8.862	10.928	8.487	10.367	8.112	9.807	7.737	9.134	7.287	8.685	6.988	8.461	6.838
	20	12.159	8.679	11.627	8.359	11.095	8.039	10.563	7.719	10.031	7.400	9.392	7.016	8.966	6.760	8.754	6.632
	21	12.268	8.119	11.755	7.838	11.242	7.557	10.729	7.276	10.216	6.995	9.600	6.658	9.189	6.433	8.984	6.321
	22	12.377	7.559	11.883	7.317	11.389	7.075	10.895	6.833	10.400	6.591	9.807	6.300	9.412	6.107	9.214	6.010
	23	12.486	6.999	12.011	6.796	11.536	6.593	11.060	6.390	10.585	6.186	10.015	5.942	9.635	5.780	9.445	5.699
	24	12.595	6.439	12.139	6.275	11.682	6.111	11.226	5.946	10.770	5.782	10.223	5.585	9.858	5.453	9.675	5.387
30	20	12.159	9.564	11.627	9.245	11.095	8.925	10.563	8.605	10.031	8.285	9.392	7.902	8.966	7.646	8.754	7.518
	21	12.268	9.005	11.755	8.724	11.242	8.443	10.729	8.162	10.216	7.881	9.600	7.544	9.189	7.319	8.984	7.207
	22	12.377	8.445	11.883	8.203	11.389	7.961	10.895	7.719	10.400	7.476	9.807	7.186	9.412	6.992	9.214	6.895
	23	12.486	7.885	12.011	7.682	11.536	7.478	11.060	7.275	10.585	7.072	10.015	6.828	9.635	6.666	9.445	6.584
	24	12.595	7.325	12.139	7.161	11.682	6.996	11.226	6.832	10.770	6.668	10.223	6.470	9.858	6.339	9.675	6.273
														HIGH AMBIENT			

Model: MCM040D - MVCU040A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	12.423	8.590	11.758	7.969	11.092	7.349	10.427	6.728	9.761	6.108	8.962	5.363	8.430	4.867	8.164	4.619
	16	12.660	7.989	12.032	7.447	11.403	6.906	10.775	6.364	10.146	5.823	9.392	5.173	8.889	4.740	8.637	4.523
24	16	12.660	9.741	12.032	9.199	11.403	8.658	10.775	8.116	10.146	7.575	9.392	6.925	8.889	6.492	8.637	6.275
	17	12.898	9.139	12.306	8.677	11.714	8.214	11.123	7.752	10.531	7.289	9.821	6.734	9.348	6.364	9.111	6.179
	18	13.135	8.538	12.580	8.154	12.026	7.771	11.471	7.387	10.916	7.004	10.250	6.544	9.806	6.237	9.584	6.084
	19	13.373	7.936	12.855	7.632	12.337	7.327	11.819	7.023	11.301	6.719	10.679	6.354	10.265	6.110	10.058	5.988
	20	13.607	7.331	13.098	7.078	12.589	6.825	12.080	6.572	11.571	6.319	10.960	6.015	10.552	5.812	10.349	5.711
28	18	13.135	10.290	12.580	9.906	12.026	9.523	11.471	9.139	10.916	8.756	10.250	8.296	9.806	7.989	9.584	7.836
	19	13.373	9.688	12.855	9.384	12.337	9.079	11.819	8.775	11.301	8.471	10.679	8.106	10.265	7.862	10.058	7.740
	20	13.607	9.083	13.098	8.830	12.589	8.577	12.080	8.324	11.571	8.071	10.960	7.767	10.552	7.564	10.349	7.463
	21	13.839	8.476	13.320	8.256	12.801	8.035	12.282	7.815	11.763	7.594	11.141	7.330	10.725	7.153	10.518	7.065
	22	14.071	7.869	13.542	7.682	13.013	7.494	12.484	7.306	11.956	7.118	11.321	6.892	10.898	6.742	10.687	6.667
	23	14.302	7.262	13.764	7.107	13.225	6.952	12.687	6.797	12.148	6.642	11.502	6.455	11.071	6.331	10.856	6.269
	24	14.534	6.655	13.986	6.533	13.438	6.410	12.889	6.288	12.341	6.165	11.683	6.018	11.244	5.920	11.025	5.871
30	20	13.607	9.959	13.098	9.706	12.589	9.453	12.080	9.200	11.571	8.947	10.960	8.643	10.552	8.440	10.349	8.339
	21	13.839	9.352	13.320	9.132	12.801	8.911	12.282	8.691	11.763	8.470	11.141	8.206	10.725	8.029	10.518	7.941
	22	14.071	8.745	13.542	8.558	13.013	8.370	12.484	8.182	11.956	7.994	11.321	7.768	10.898	7.618	10.687	7.543
	23	14.302	8.138	13.764	7.983	13.225	7.828	12.687	7.673	12.148	7.518	11.502	7.331	11.071	7.207	10.856	7.145
	24	14.534	7.531	13.986	7.409	13.438	7.286	12.889	7.164	12.341	7.041	11.683	6.894	11.244	6.796	11.025	6.747
														HIGH AMBIENT			

Cooling Only (R22)

Model: MCM050D - MVCU050A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	14.215	10.120	13.605	9.590	12.995	9.061	12.384	8.531	11.774	8.002	11.042	7.367	10.554	6.943	10.309	6.731
	16	14.637	9.423	14.057	8.965	13.478	8.508	12.899	8.050	12.320	7.592	11.625	7.042	11.161	6.676	10.929	6.493
24	16	14.637	11.034	14.057	10.576	13.478	10.118	12.899	9.661	12.320	9.203	11.625	8.653	11.161	8.287	10.929	8.104
	17	15.058	10.338	14.510	9.952	13.962	9.565	13.414	9.179	12.865	8.793	12.207	8.329	11.769	8.020	11.550	7.865
	18	15.480	9.642	14.963	9.327	14.446	9.012	13.928	8.697	13.411	8.383	12.790	8.005	12.377	7.753	12.170	7.627
	19	15.902	8.945	15.415	8.702	14.929	8.459	14.443	8.216	13.957	7.972	13.373	7.681	12.984	7.486	12.790	7.389
	20	16.317	8.246	15.814	8.050	15.310	7.854	14.806	7.658	14.303	7.463	13.698	7.228	13.295	7.071	13.094	6.992
28	18	15.480	11.252	14.963	10.938	14.446	10.623	13.928	10.308	13.411	9.993	12.790	9.616	12.377	9.364	12.170	9.238
	19	15.902	10.556	15.415	10.313	14.929	10.070	14.443	9.827	13.957	9.583	13.373	9.291	12.984	9.097	12.790	9.000
	20	16.317	9.857	15.814	9.661	15.310	9.465	14.806	9.269	14.303	9.073	13.698	8.838	13.295	8.682	13.094	8.603
	21	16.729	9.156	16.176	8.991	15.623	8.826	15.069	8.662	14.516	8.497	13.852	8.299	13.409	8.168	13.188	8.102
	22	17.141	8.455	16.538	8.321	15.935	8.188	15.332	8.054	14.729	7.921	14.005	7.760	13.523	7.653	13.281	7.600
	23	17.553	7.754	16.900	7.651	16.248	7.549	15.595	7.446	14.942	7.344	14.158	7.221	13.636	7.139	13.375	7.098
	24	17.965	7.052	17.263	6.981	16.560	6.910	15.857	6.839	15.155	6.768	14.312	6.682	13.750	6.625	13.469	6.597
30	20	16.317	10.662	15.814	10.467	15.310	10.271	14.806	10.075	14.303	9.879	13.698	9.644	13.295	9.487	13.094	9.409
	21	16.729	9.961	16.176	9.797	15.623	9.632	15.069	9.467	14.516	9.302	13.852	9.105	13.409	8.973	13.188	8.907
	22	17.141	9.260	16.538	9.127	15.935	8.993	15.332	8.859	14.729	8.726	14.005	8.566	13.523	8.459	13.281	8.405
	23	17.553	8.559	16.900	8.457	16.248	8.354	15.595	8.252	14.942	8.149	14.158	8.027	13.636	7.945	13.375	7.904
	24	17.965	7.858	17.263	7.787	16.560	7.715	15.857	7.644	15.155	7.573	14.312	7.488	13.750	7.431	13.469	7.402
														HIGH AMBIENT			

Model: MCM062C - MVCU060A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	18.468	12.330	17.408	11.351	16.348	10.372	15.289	9.394	14.229	8.415	12.958	7.241	12.110	6.458	11.686	6.066
	16	18.767	11.329	17.763	10.484	16.759	9.638	15.755	8.792	14.751	7.947	13.546	6.932	12.743	6.256	12.341	5.918
24	16	18.767	14.183	17.763	13.338	16.759	12.492	15.755	11.646	14.751	10.801	13.546	9.786	12.743	9.110	12.341	8.772
	17	19.067	13.183	18.118	12.470	17.169	11.758	16.221	11.045	15.272	10.333	14.134	9.478	13.375	8.908	12.996	8.623
	18	19.366	12.182	18.473	11.603	17.580	11.023	16.687	10.444	15.794	9.865	14.722	9.169	14.008	8.706	13.651	8.474
	19	19.666	11.181	18.828	10.735	17.990	10.289	17.153	9.843	16.315	9.396	15.310	8.861	14.640	8.504	14.305	8.326
	20	19.961	10.176	19.147	9.828	18.333	9.479	17.519	9.130	16.705	8.782	15.728	8.363	15.076	8.084	14.751	7.945
28	18	19.366	15.036	18.473	14.457	17.580	13.877	16.687	13.298	15.794	12.719	14.722	12.023	14.008	11.560	13.651	11.328
	19	19.666	14.035	18.828	13.589	17.990	13.143	17.153	12.697	16.315	12.250	15.310	11.715	14.640	11.358	14.305	11.180
	20	19.961	13.030	19.147	12.682	18.333	12.333	17.519	11.984	16.705	11.636	15.728	11.217	15.076	10.938	14.751	10.799
	21	20.254	12.023	19.442	11.748	18.630	11.473	17.818	11.198	17.005	10.923	16.031	10.593	15.381	10.373	15.056	10.263
	22	20.547	11.015	19.737	10.814	18.927	10.613	18.117	10.412	17.306	10.210	16.334	9.969	15.686	9.808	15.362	9.728
	23	20.840	10.007	20.032	9.880	19.224	9.753	18.415	9.625	17.607	9.498	16.637	9.345	15.991	9.243	15.667	9.192
	24	21.133	9.000	20.327	8.946	19.521	8.892	18.714	8.839	17.908	8.785	16.941	8.721	16.295	8.678	15.973	8.657
30	20	19.961	14.457	19.147	14.109	18.333	13.760	17.519	13.411	16.705	13.063	15.728	12.644	15.076	12.365	14.751	12.226
	21	20.254	13.450	19.442	13.175	18.630	12.900	17.818	12.625	17.005	12.350	16.031	12.020	15.381	11.800	15.056	11.690
	22	20.547	12.442	19.737	12.241	18.927	12.040	18.117	11.839	17.306	11.637	16.334	11.396	15.686	11.235	15.362	11.155
	23	20.840	11.434	20.032	11.307	19.224	11.180	18.415	11.052	17.607	10.925	16.637	10.772	15.991	10.670	15.667	10.619
	24	21.133	10.427	20.327	10.373	19.521	10.319	18.714	10.266	17.908	10.212	16.941	10.148	16.295	10.105	15.973	10.084
														HIGH AMBIENT			

Cooling Only (R22)

Model: MCK025A - MVCU025A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	8.061	4.666	7.514	4.140	6.967	3.614	6.420	3.089	5.873	2.563	5.216	1.932	4.778	1.511	4.559	1.301
	16	8.325	4.422	7.748	3.886	7.170	3.350	6.593	2.814	6.016	2.277	5.323	1.634	4.861	1.205	4.630	0.991
24	16	8.325	6.120	7.748	5.583	7.170	5.047	6.593	4.511	6.016	3.975	5.323	3.331	4.861	2.902	4.630	2.688
	17	8.589	5.876	7.981	5.329	7.374	4.783	6.766	4.236	6.158	3.689	5.429	3.033	4.943	2.596	4.700	2.378
	18	8.852	5.632	8.215	5.075	7.577	4.518	6.939	3.961	6.301	3.404	5.536	2.735	5.026	2.290	4.771	2.067
	19	9.116	5.388	8.448	4.821	7.780	4.253	7.112	3.686	6.444	3.118	5.643	2.438	5.108	1.984	4.841	1.757
	20	9.382	5.147	8.705	4.597	8.027	4.046	7.350	3.495	6.672	2.944	5.859	2.283	5.317	1.842	5.046	1.622
28	18	8.852	7.329	8.215	6.772	7.577	6.215	6.939	5.658	6.301	5.101	5.536	4.433	5.026	3.987	4.771	3.764
	19	9.116	7.085	8.448	6.518	7.780	5.951	7.112	5.383	6.444	4.816	5.643	4.135	5.108	3.681	4.841	3.454
	20	9.382	6.845	8.705	6.294	8.027	5.743	7.350	5.192	6.672	4.641	5.859	3.980	5.317	3.540	5.046	3.319
	21	9.650	6.606	8.977	6.090	8.303	5.574	7.630	5.057	6.956	4.541	6.148	3.921	5.609	3.508	5.340	3.301
	22	9.918	6.368	9.249	5.886	8.579	5.404	7.910	4.922	7.241	4.440	6.438	3.862	5.902	3.476	5.634	3.283
	23	10.186	6.130	9.521	5.682	8.855	5.235	8.190	4.787	7.525	4.340	6.727	3.803	6.195	3.445	5.929	3.266
	24	10.454	5.891	9.793	5.478	9.131	5.065	8.470	4.652	7.809	4.239	7.016	3.743	6.487	3.413	6.223	3.248
30	20	9.382	7.694	8.705	7.143	8.027	6.592	7.350	6.041	6.672	5.490	5.859	4.829	5.317	4.388	5.046	4.168
	21	9.650	7.455	8.977	6.939	8.303	6.422	7.630	5.906	6.956	5.389	6.148	4.770	5.609	4.357	5.340	4.150
	22	9.918	7.217	9.249	6.735	8.579	6.253	7.910	5.771	7.241	5.289	6.438	4.711	5.902	4.325	5.634	4.132
	23	10.186	6.978	9.521	6.531	8.855	6.083	8.190	5.636	7.525	5.188	6.727	4.651	6.195	4.293	5.929	4.114
	24	10.454	6.740	9.793	6.327	9.131	5.914	8.470	5.501	7.809	5.088	7.016	4.592	6.487	4.262	6.223	4.097
														HIGH AMBIENT			

Model: MCK030A - MVCU030A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	9.932	6.291	9.305	5.709	8.678	5.127	8.051	4.546	7.424	3.964	6.672	3.266	6.171	2.801	5.920	2.568
	16	10.057	5.710	9.459	5.197	8.860	4.684	8.261	4.172	7.662	3.659	6.944	3.044	6.465	2.634	6.226	2.429
24	16	10.057	7.418	9.459	6.905	8.860	6.393	8.261	5.880	7.662	5.367	6.944	4.752	6.465	4.342	6.226	4.137
	17	10.183	6.837	9.613	6.394	9.042	5.950	8.471	5.506	7.901	5.063	7.216	4.530	6.759	4.175	6.531	3.998
	18	10.309	6.256	9.767	5.882	9.224	5.507	8.682	5.132	8.139	4.758	7.488	4.308	7.054	4.009	6.837	3.859
	19	10.435	5.675	9.921	5.370	9.406	5.064	8.892	4.759	8.377	4.453	7.760	4.086	7.348	3.842	7.143	3.720
	20	10.560	5.094	10.065	4.852	9.570	4.609	9.075	4.367	8.580	4.125	7.986	3.834	7.590	3.640	7.392	3.543
28	18	10.309	7.965	9.767	7.590	9.224	7.215	8.682	6.841	8.139	6.466	7.488	6.017	7.054	5.717	6.837	5.567
	19	10.435	7.384	9.921	7.078	9.406	6.773	8.892	6.467	8.377	6.161	7.760	5.795	7.348	5.550	7.143	5.428
	20	10.560	6.802	10.065	6.560	9.570	6.318	9.075	6.075	8.580	5.833	7.986	5.542	7.590	5.348	7.392	5.251
	21	10.684	6.220	10.203	6.037	9.722	5.854	9.241	5.672	8.759	5.489	8.182	5.269	7.797	5.123	7.605	5.050
	22	10.808	5.638	10.341	5.515	9.873	5.391	9.406	5.268	8.939	5.144	8.378	4.996	8.004	4.898	7.817	4.848
	23	10.932	5.056	10.479	4.992	10.025	4.928	9.572	4.864	9.118	4.800	8.574	4.723	8.211	4.672	8.029	4.647
	24	11.056	4.474	10.617	4.470	10.177	4.465	9.737	4.460	9.297	4.456	8.769	4.451	8.418	4.447	8.242	4.445
30	20	10.560	7.656	10.065	7.414	9.570	7.172	9.075	6.929	8.580	6.687	7.986	6.396	7.590	6.203	7.392	6.106
	21	10.684	7.074	10.203	6.892	9.722	6.709	9.241	6.526	8.759	6.343	8.182	6.123	7.797	5.977	7.605	5.904
	22	10.808	6.492	10.341	6.369	9.873	6.245	9.406	6.122	8.939	5.999	8.378	5.851	8.004	5.752	7.817	5.702
	23	10.932	5.910	10.479	5.846	10.025	5.782	9.572	5.718	9.118	5.654	8.574	5.578	8.211	5.526	8.029	5.501
	24	11.056	5.328	10.617	5.324	10.177	5.319	9.737	5.315	9.297	5.310	8.769	5.305	8.418	5.301	8.242	5.299
														HIGH AMBIENT			

Cooling Only (R22)

Model: MCK040A - MVCU035A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	12.019	7.821	11.269	7.138	10.520	6.455	9.770	5.771	9.020	5.088	8.120	4.268	7.520	3.722	7.220	3.449
	16	12.188	7.153	11.469	6.562	10.751	5.970	10.032	5.379	9.314	4.787	8.451	4.078	7.876	3.605	7.589	3.368
24	16	12.188	9.109	11.469	8.518	10.751	7.926	10.032	7.335	9.314	6.743	8.451	6.034	7.876	5.560	7.589	5.324
	17	12.356	8.441	11.669	7.942	10.982	7.442	10.294	6.942	9.607	6.443	8.782	5.843	8.233	5.443	7.958	5.243
	18	12.525	7.774	11.869	7.366	11.213	6.958	10.557	6.550	9.901	6.142	9.114	5.652	8.589	5.326	8.326	5.163
	19	12.693	7.106	12.068	6.790	11.444	6.473	10.819	6.157	10.194	5.841	9.445	5.461	8.945	5.208	8.695	5.082
	20	12.860	6.436	12.256	6.190	11.652	5.944	11.049	5.697	10.445	5.451	9.720	5.156	9.237	4.959	8.995	4.861
28	18	12.525	9.730	11.869	9.322	11.213	8.914	10.557	8.506	9.901	8.098	9.114	7.608	8.589	7.282	8.326	7.118
	19	12.693	9.062	12.068	8.746	11.444	8.429	10.819	8.113	10.194	7.797	9.445	7.417	8.945	7.164	8.695	7.038
	20	12.860	8.392	12.256	8.146	11.652	7.899	11.049	7.653	10.445	7.407	9.720	7.112	9.237	6.915	8.995	6.817
	21	13.026	7.720	12.436	7.529	11.846	7.339	11.256	7.149	10.666	6.958	9.958	6.730	9.486	6.578	9.250	6.502
	22	13.193	7.048	12.617	6.913	12.040	6.779	11.464	6.644	10.888	6.510	10.196	6.348	9.735	6.240	9.505	6.187
	23	13.359	6.376	12.797	6.297	12.234	6.218	11.672	6.139	11.109	6.061	10.434	5.966	9.984	5.903	9.759	5.872
	24	13.526	5.704	12.977	5.681	12.428	5.658	11.880	5.635	11.331	5.612	10.673	5.584	10.234	5.566	10.014	5.557
30	20	12.860	9.370	12.256	9.123	11.652	8.877	11.049	8.631	10.445	8.385	9.720	8.090	9.237	7.893	8.995	7.795
	21	13.026	8.698	12.436	8.507	11.846	8.317	11.256	8.127	10.666	7.936	9.958	7.708	9.486	7.556	9.250	7.480
	22	13.193	8.026	12.617	7.891	12.040	7.756	11.464	7.622	10.888	7.487	10.196	7.326	9.735	7.218	9.505	7.165
	23	13.359	7.353	12.797	7.275	12.234	7.196	11.672	7.117	11.109	7.039	10.434	6.944	9.984	6.881	9.759	6.850
	24	13.526	6.681	12.977	6.659	12.428	6.636	11.880	6.613	11.331	6.590	10.673	6.562	10.234	6.544	10.014	6.535
														HIGH AMBIENT			

Model: MCK040A - MVCU040A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	12.855	8.520	12.137	7.881	11.420	7.243	10.702	6.604	9.985	5.966	9.124	5.200	8.550	4.689	8.263	4.434
	16	13.185	7.841	12.476	7.283	11.767	6.725	11.058	6.167	10.349	5.610	9.499	4.940	8.931	4.494	8.648	4.271
24	16	13.185	9.769	12.476	9.211	11.767	8.653	11.058	8.095	10.349	7.538	9.499	6.868	8.931	6.422	8.648	6.199
	17	13.516	9.090	12.816	8.613	12.115	8.136	11.415	7.659	10.714	7.181	9.873	6.609	9.313	6.227	9.033	6.036
	18	13.847	8.411	13.155	8.015	12.463	7.618	11.771	7.222	11.079	6.825	10.248	6.349	9.695	6.032	9.418	5.873
	19	14.177	7.732	13.494	7.416	12.810	7.101	12.127	6.785	11.443	6.469	10.623	6.090	10.076	5.837	9.803	5.711
	20	14.507	7.051	13.819	6.798	13.132	6.544	12.444	6.291	11.757	6.037	10.931	5.733	10.381	5.530	10.106	5.429
28	18	13.847	10.339	13.155	9.943	12.463	9.546	11.771	9.150	11.079	8.753	10.248	8.277	9.695	7.960	9.418	7.801
	19	14.177	9.660	13.494	9.345	12.810	9.029	12.127	8.713	11.443	8.397	10.623	8.018	10.076	7.765	9.803	7.639
	20	14.507	8.979	13.819	8.726	13.132	8.472	12.444	8.219	11.757	7.965	10.931	7.661	10.381	7.458	10.106	7.357
	21	14.835	8.297	14.135	8.094	13.435	7.890	12.735	7.687	12.035	7.483	11.195	7.239	10.635	7.077	10.356	6.995
	22	15.163	7.614	14.451	7.461	13.739	7.308	13.026	7.155	12.314	7.002	11.459	6.818	10.890	6.695	10.605	6.634
	23	15.491	6.932	14.767	6.829	14.042	6.726	13.317	6.623	12.593	6.520	11.723	6.396	11.144	6.314	10.854	6.273
	24	15.820	6.249	15.083	6.197	14.346	6.144	13.609	6.091	12.872	6.038	11.987	5.975	11.398	5.932	11.103	5.911
30	20	14.507	9.943	13.819	9.690	13.132	9.436	12.444	9.183	11.757	8.929	10.931	8.625	10.381	8.422	10.106	8.321
	21	14.835	9.261	14.135	9.058	13.435	8.854	12.735	8.651	12.035	8.447	11.195	8.203	10.635	8.041	10.356	7.959
	22	15.163	8.578	14.451	8.425	13.739	8.272	13.026	8.119	12.314	7.966	11.459	7.782	10.890	7.659	10.605	7.598
	23	15.491	7.896	14.767	7.793	14.042	7.690	13.317	7.587	12.593	7.484	11.723	7.360	11.144	7.278	10.854	7.237
	24	15.820	7.213	15.083	7.161	14.346	7.108	13.609	7.055	12.872	7.002	11.987	6.939	11.398	6.896	11.103	6.875
														HIGH AMBIENT			

Cooling Only (R22)

Model: MCK050A - MVCU050A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	14.663	9.769	13.967	9.183	13.272	8.596	12.577	8.010	11.882	7.423	11.047	6.719	10.491	6.250	10.213	6.016
	16	15.207	9.008	14.500	8.496	13.792	7.984	13.085	7.472	12.378	6.960	11.529	6.345	10.963	5.936	10.680	5.731
24	16	15.207	11.030	14.500	10.518	13.792	10.006	13.085	9.494	12.378	8.982	11.529	8.367	10.963	7.957	10.680	7.753
	17	15.751	10.269	15.032	9.832	14.313	9.394	13.593	8.956	12.874	8.518	12.011	7.993	11.435	7.643	11.148	7.468
	18	16.295	9.508	15.564	9.145	14.833	8.782	14.102	8.418	13.370	8.055	12.493	7.619	11.908	7.328	11.615	7.183
	19	16.840	8.747	16.096	8.458	15.353	8.169	14.610	7.881	13.866	7.592	12.974	7.245	12.380	7.014	12.082	6.898
	20	17.381	7.984	16.604	7.754	15.826	7.524	15.048	7.294	14.271	7.064	13.337	6.788	12.715	6.604	12.404	6.512
28	18	16.295	11.530	15.564	11.167	14.833	10.803	14.102	10.440	13.370	10.077	12.493	9.641	11.908	9.350	11.615	9.205
	19	16.840	10.769	16.096	10.480	15.353	10.191	14.610	9.902	13.866	9.613	12.974	9.267	12.380	9.036	12.082	8.920
	20	17.381	10.006	16.604	9.776	15.826	9.546	15.048	9.316	14.271	9.086	13.337	8.810	12.715	8.626	12.404	8.534
	21	17.921	9.242	17.094	9.061	16.267	8.879	15.440	8.697	14.613	8.516	13.621	8.298	12.960	8.153	12.629	8.080
	22	18.461	8.478	17.585	8.345	16.709	8.212	15.832	8.079	14.956	7.945	13.905	7.786	13.204	7.679	12.853	7.626
	23	19.001	7.714	18.075	7.629	17.150	7.545	16.224	7.460	15.299	7.375	14.189	7.274	13.448	7.206	13.078	7.172
	24	19.540	6.950	18.566	6.914	17.591	6.877	16.617	6.841	15.642	6.805	14.472	6.761	13.693	6.732	13.303	6.718
30	20	17.381	11.017	16.604	10.787	15.826	10.557	15.048	10.327	14.271	10.097	13.337	9.821	12.715	9.637	12.404	9.545
	21	17.921	10.253	17.094	10.071	16.267	9.890	15.440	9.708	14.613	9.527	13.621	9.309	12.960	9.163	12.629	9.091
	22	18.461	9.489	17.585	9.356	16.709	9.223	15.832	9.089	14.956	8.956	13.905	8.797	13.204	8.690	12.853	8.637
	23	19.001	8.725	18.075	8.640	17.150	8.555	16.224	8.471	15.299	8.386	14.189	8.284	13.448	8.217	13.078	8.183
	24	19.540	7.961	18.566	7.925	17.591	7.888	16.617	7.852	15.642	7.816	14.472	7.772	13.693	7.743	13.303	7.729
														HIGH AMBIENT			

Model: MCC025C - MVCU025A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	8.049	5.242	7.504	4.728	6.959	4.214	6.415	3.700	5.870	3.186	5.216	2.570	4.780	2.159	4.562	1.953
	16	8.315	4.942	7.740	4.427	7.164	3.911	6.589	3.396	6.013	2.880	5.323	2.261	4.862	1.849	4.632	1.643
24	16	8.315	6.255	7.740	5.740	7.164	5.224	6.589	4.709	6.013	4.193	5.323	3.575	4.862	3.162	4.632	2.956
	17	8.582	5.956	7.976	5.438	7.369	4.921	6.763	4.404	6.157	3.887	5.429	3.266	4.944	2.852	4.702	2.645
	18	8.848	5.656	8.211	5.137	7.574	4.618	6.937	4.099	6.300	3.580	5.536	2.957	5.026	2.542	4.772	2.335
	19	9.115	5.356	8.447	4.836	7.779	4.315	7.112	3.794	6.444	3.274	5.643	2.649	5.108	2.232	4.841	2.024
	20	9.384	5.060	8.706	4.564	8.028	4.068	7.350	3.573	6.672	3.077	5.859	2.482	5.317	2.086	5.045	1.887
28	18	8.848	6.969	8.211	6.450	7.574	5.931	6.937	5.412	6.300	4.893	5.536	4.271	5.026	3.855	4.772	3.648
	19	9.115	6.670	8.447	6.149	7.779	5.628	7.112	5.108	6.444	4.587	5.643	3.962	5.108	3.545	4.841	3.337
	20	9.384	6.373	8.706	5.877	8.028	5.382	7.350	4.886	6.672	4.390	5.859	3.796	5.317	3.399	5.045	3.201
	21	9.655	6.079	8.980	5.626	8.306	5.173	7.632	4.720	6.957	4.267	6.148	3.724	5.609	3.361	5.339	3.180
	22	9.925	5.784	9.254	5.374	8.584	4.964	7.913	4.554	7.242	4.144	6.438	3.652	5.901	3.324	5.633	3.160
	23	10.196	5.490	9.529	5.123	8.862	4.755	8.194	4.388	7.527	4.021	6.727	3.580	6.193	3.286	5.926	3.140
	24	10.466	5.196	9.803	4.871	9.139	4.547	8.476	4.222	7.812	3.898	7.016	3.509	6.485	3.249	6.220	3.119
30	20	9.384	7.030	8.706	6.534	8.028	6.038	7.350	5.543	6.672	5.047	5.859	4.452	5.317	4.056	5.045	3.857
	21	9.655	6.735	8.980	6.282	8.306	5.830	7.632	5.377	6.957	4.924	6.148	4.380	5.609	4.018	5.339	3.837
	22	9.925	6.441	9.254	6.031	8.584	5.621	7.913	5.211	7.242	4.801	6.438	4.309	5.901	3.981	5.633	3.817
	23	10.196	6.147	9.529	5.779	8.862	5.412	8.194	5.045	7.527	4.678	6.727	4.237	6.193	3.943	5.926	3.796
	24	10.466	5.852	9.803	5.528	9.139	5.203	8.476	4.879	7.812	4.554	7.016	4.165	6.485	3.906	6.220	3.776
														HIGH AMBIENT			

Cooling Only (R22)

Model: MCC030C - MVCU030A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	9.992	6.940	9.398	6.346	8.804	5.753	8.209	5.160	7.615	4.567	6.902	3.855	6.427	3.381	6.189	3.144
	16	10.004	6.512	9.478	5.973	8.951	5.434	8.425	4.896	7.898	4.357	7.266	3.710	6.845	3.279	6.634	3.064
24	16	10.004	7.904	9.478	7.365	8.951	6.827	8.425	6.288	7.898	5.749	7.266	5.103	6.845	4.672	6.634	4.456
	17	10.016	7.477	9.558	6.992	9.099	6.508	8.640	6.023	8.181	5.539	7.630	4.958	7.263	4.570	7.080	4.376
	18	10.029	7.049	9.637	6.619	9.246	6.189	8.855	5.759	8.464	5.329	7.995	4.813	7.682	4.469	7.525	4.297
	19	10.041	6.621	9.717	6.246	9.394	5.870	9.071	5.494	8.747	5.119	8.359	4.668	8.100	4.367	7.971	4.217
	20	10.049	6.192	9.763	5.856	9.477	5.520	9.191	5.183	8.905	4.847	8.562	4.444	8.334	4.175	8.219	4.040
28	18	10.029	8.441	9.637	8.011	9.246	7.581	8.855	7.151	8.464	6.721	7.995	6.205	7.682	5.861	7.525	5.689
	19	10.041	8.014	9.717	7.638	9.394	7.262	9.071	6.887	8.747	6.511	8.359	6.060	8.100	5.759	7.971	5.609
	20	10.049	7.584	9.763	7.248	9.477	6.912	9.191	6.576	8.905	6.240	8.562	5.836	8.334	5.567	8.219	5.433
	21	10.055	7.154	9.787	6.847	9.518	6.541	9.249	6.234	8.981	5.927	8.658	5.560	8.443	5.314	8.336	5.192
	22	10.062	6.723	9.810	6.446	9.559	6.169	9.307	5.892	9.056	5.615	8.754	5.283	8.553	5.062	8.452	4.951
	23	10.068	6.292	9.834	6.045	9.599	5.798	9.365	5.551	9.131	5.303	8.850	5.007	8.663	4.809	8.569	4.710
	24	10.074	5.862	9.857	5.644	9.640	5.427	9.423	5.209	9.206	4.991	8.946	4.730	8.773	4.556	8.686	4.469
30	20	10.049	8.280	9.763	7.944	9.477	7.608	9.191	7.272	8.905	6.936	8.562	6.532	8.334	6.263	8.219	6.129
	21	10.055	7.850	9.787	7.543	9.518	7.237	9.249	6.930	8.981	6.624	8.658	6.256	8.443	6.011	8.336	5.888
	22	10.062	7.419	9.810	7.142	9.559	6.865	9.307	6.588	9.056	6.312	8.754	5.979	8.553	5.758	8.452	5.647
	23	10.068	6.988	9.834	6.741	9.599	6.494	9.365	6.247	9.131	6.000	8.850	5.703	8.663	5.505	8.569	5.406
	24	10.074	6.558	9.857	6.340	9.640	6.123	9.423	5.905	9.206	5.688	8.946	5.427	8.773	5.252	8.686	5.165
														HIGH AMBIENT			

Model: MCC040C - MVCU035A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	11.375	7.858	10.735	7.198	10.094	6.539	9.453	5.880	8.812	5.220	8.043	4.429	7.530	3.902	7.274	3.638
	16	11.511	7.449	10.920	6.815	10.330	6.182	9.739	5.548	9.149	4.915	8.440	4.155	7.968	3.648	7.732	3.395
24	16	11.511	9.110	10.920	8.476	10.330	7.843	9.739	7.209	9.149	6.576	8.440	5.816	7.968	5.309	7.732	5.056
	17	11.646	8.701	11.106	8.093	10.566	7.486	10.026	6.878	9.486	6.270	8.837	5.541	8.405	5.055	8.189	4.812
	18	11.782	8.292	11.292	7.710	10.802	7.129	10.312	6.547	9.822	5.965	9.235	5.267	8.843	4.801	8.647	4.569
	19	11.917	7.883	11.477	7.327	11.038	6.771	10.599	6.216	10.159	5.660	9.632	4.992	9.280	4.548	9.104	4.325
	20	12.049	7.475	11.632	6.948	11.214	6.421	10.797	5.894	10.380	5.367	9.879	4.735	9.545	4.313	9.378	4.102
28	18	11.782	9.953	11.292	9.371	10.802	8.790	10.312	8.208	9.822	7.626	9.235	6.928	8.843	6.462	8.647	6.230
	19	11.917	9.544	11.477	8.988	11.038	8.432	10.599	7.876	10.159	7.321	9.632	6.653	9.280	6.209	9.104	5.986
	20	12.049	9.136	11.632	8.609	11.214	8.082	10.797	7.555	10.380	7.028	9.879	6.396	9.545	5.974	9.378	5.763
	21	12.179	8.728	11.765	8.232	11.351	7.736	10.937	7.240	10.523	6.744	10.026	6.149	9.695	5.752	9.529	5.554
	22	12.308	8.320	11.898	7.855	11.487	7.390	11.076	6.925	10.666	6.461	10.173	5.903	9.844	5.531	9.680	5.345
	23	12.438	7.912	12.031	7.478	11.623	7.044	11.216	6.610	10.809	6.177	10.320	5.656	9.994	5.309	9.831	5.136
	24	12.568	7.503	12.164	7.101	11.760	6.698	11.356	6.296	10.952	5.893	10.467	5.410	10.143	5.088	9.982	4.927
30	20	12.049	9.967	11.632	9.440	11.214	8.913	10.797	8.386	10.380	7.859	9.879	7.226	9.545	6.805	9.378	6.594
	21	12.179	9.558	11.765	9.062	11.351	8.567	10.937	8.071	10.523	7.575	10.026	6.980	9.695	6.583	9.529	6.385
	22	12.308	9.150	11.898	8.685	11.487	8.221	11.076	7.756	10.666	7.291	10.173	6.733	9.844	6.361	9.680	6.175
	23	12.438	8.742	12.031	8.308	11.623	7.875	11.216	7.441	10.809	7.007	10.320	6.487	9.994	6.140	9.831	5.966
	24	12.568	8.334	12.164	7.931	11.760	7.529	11.356	7.126	10.952	6.723	10.467	6.240	10.143	5.918	9.982	5.757
														HIGH AMBIENT			

Cooling Only (R22)

Model: MCC040C - MVCU040A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	12.844	8.546	12.056	7.892	11.268	7.239	10.480	6.586	9.692	5.932	8.746	5.148	8.115	4.626	7.800	4.364
	16	13.226	7.879	12.418	7.320	11.609	6.761	10.800	6.201	9.992	5.642	9.021	4.972	8.374	4.524	8.051	4.301
24	16	13.226	9.673	12.418	9.114	11.609	8.554	10.800	7.995	9.992	7.436	9.021	6.766	8.374	6.318	8.051	6.095
	17	13.609	9.006	12.779	8.541	11.950	8.076	11.121	7.611	10.292	7.147	9.297	6.589	8.634	6.217	8.302	6.031
	18	13.991	8.339	13.141	7.968	12.291	7.598	11.442	7.227	10.592	6.857	9.573	6.412	8.893	6.116	8.553	5.968
	19	14.373	7.672	13.503	7.396	12.633	7.119	11.762	6.843	10.892	6.567	9.848	6.236	9.152	6.015	8.804	5.904
	20	14.756	7.001	13.875	6.789	12.994	6.578	12.113	6.366	11.232	6.154	10.175	5.900	9.470	5.730	9.118	5.645
28	18	13.991	10.133	13.141	9.762	12.291	9.392	11.442	9.021	10.592	8.651	9.573	8.206	8.893	7.910	8.553	7.762
	19	14.373	9.466	13.503	9.190	12.633	8.913	11.762	8.637	10.892	8.361	9.848	8.030	9.152	7.809	8.804	7.698
	20	14.756	8.795	13.875	8.583	12.994	8.372	12.113	8.160	11.232	7.948	10.175	7.693	9.470	7.524	9.118	7.439
	21	15.140	8.122	14.255	7.955	13.369	7.787	12.484	7.620	11.598	7.452	10.535	7.251	9.827	7.117	9.473	7.050
	22	15.524	7.449	14.634	7.326	13.744	7.203	12.854	7.080	11.964	6.957	10.896	6.809	10.184	6.710	9.828	6.661
	23	15.908	6.777	15.014	6.698	14.119	6.619	13.225	6.540	12.330	6.461	11.257	6.366	10.541	6.303	10.183	6.272
	24	16.292	6.104	15.393	6.069	14.494	6.034	13.595	6.000	12.696	5.965	11.617	5.924	10.898	5.896	10.538	5.882
30	20	14.756	9.692	13.875	9.480	12.994	9.268	12.113	9.057	11.232	8.845	10.175	8.590	9.470	8.421	9.118	8.336
	21	15.140	9.019	14.255	8.852	13.369	8.684	12.484	8.517	11.598	8.349	10.535	8.148	9.827	8.014	9.473	7.947
	22	15.524	8.346	14.634	8.223	13.744	8.100	12.854	7.977	11.964	7.853	10.896	7.706	10.184	7.607	9.828	7.558
	23	15.908	7.674	15.014	7.595	14.119	7.516	13.225	7.437	12.330	7.358	11.257	7.263	10.541	7.200	10.183	7.169
	24	16.292	7.001	15.393	6.966	14.494	6.931	13.595	6.897	12.696	6.862	11.617	6.821	10.898	6.793	10.538	6.779
														HIGH AMBIENT			

Model: MCC050C - MVCU050A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	15.870	10.372	14.884	9.451	13.899	8.530	12.914	7.608	11.928	6.687	10.746	5.581	9.958	4.844	9.564	4.476
	16	15.885	9.484	15.000	8.685	14.115	7.885	13.230	7.086	12.345	6.286	11.283	5.327	10.575	4.687	10.221	4.367
24	16	15.885	11.825	15.000	11.026	14.115	10.226	13.230	9.427	12.345	8.627	11.283	7.668	10.575	7.028	10.221	6.708
	17	15.900	10.937	15.115	10.260	14.330	9.582	13.546	8.904	12.761	8.226	11.819	7.413	11.192	6.871	10.878	6.600
	18	15.915	10.049	15.231	9.493	14.546	8.937	13.862	8.381	13.177	7.825	12.356	7.158	11.808	6.713	11.535	6.491
	19	15.930	9.162	15.346	8.727	14.762	8.293	14.178	7.859	13.594	7.425	12.893	6.904	12.425	6.556	12.192	6.383
	20	15.941	8.271	15.417	7.935	14.894	7.598	14.371	7.262	13.848	6.926	13.220	6.522	12.802	6.253	12.593	6.119
28	18	15.915	12.390	15.231	11.834	14.546	11.278	13.862	10.722	13.177	10.166	12.356	9.499	11.808	9.054	11.535	8.832
	19	15.930	11.502	15.346	11.068	14.762	10.634	14.178	10.200	13.594	9.766	12.893	9.244	12.425	8.897	12.192	8.723
	20	15.941	10.612	15.417	10.275	14.894	9.939	14.371	9.603	13.848	9.267	13.220	8.863	12.802	8.594	12.593	8.460
	21	15.948	9.719	15.460	9.465	14.971	9.211	14.483	8.957	13.995	8.702	13.409	8.397	13.019	8.194	12.823	8.092
	22	15.955	8.827	15.502	8.654	15.048	8.482	14.595	8.310	14.142	8.138	13.598	7.932	13.235	7.794	13.054	7.725
	23	15.962	7.934	15.544	7.844	15.126	7.754	14.707	7.664	14.289	7.574	13.786	7.466	13.452	7.394	13.284	7.358
	24	15.970	7.041	15.586	7.033	15.203	7.026	14.819	7.018	14.435	7.010	13.975	7.000	13.668	6.994	13.515	6.991
30	20	15.941	11.782	15.417	11.446	14.894	11.110	14.371	10.773	13.848	10.437	13.220	10.034	12.802	9.765	12.593	9.630
	21	15.948	10.890	15.460	10.635	14.971	10.381	14.483	10.127	13.995	9.873	13.409	9.568	13.019	9.365	12.823	9.263
	22	15.955	9.997	15.502	9.825	15.048	9.653	14.595	9.481	14.142	9.309	13.598	9.102	13.235	8.964	13.054	8.896
	23	15.962	9.104	15.544	9.014	15.126	8.924	14.707	8.834	14.289	8.744	13.786	8.636	13.452	8.564	13.284	8.528
	24	15.970	8.212	15.586	8.204	15.203	8.196	14.819	8.188	14.435	8.180	13.975	8.171	13.668	8.164	13.515	8.161
														HIGH AMBIENT			

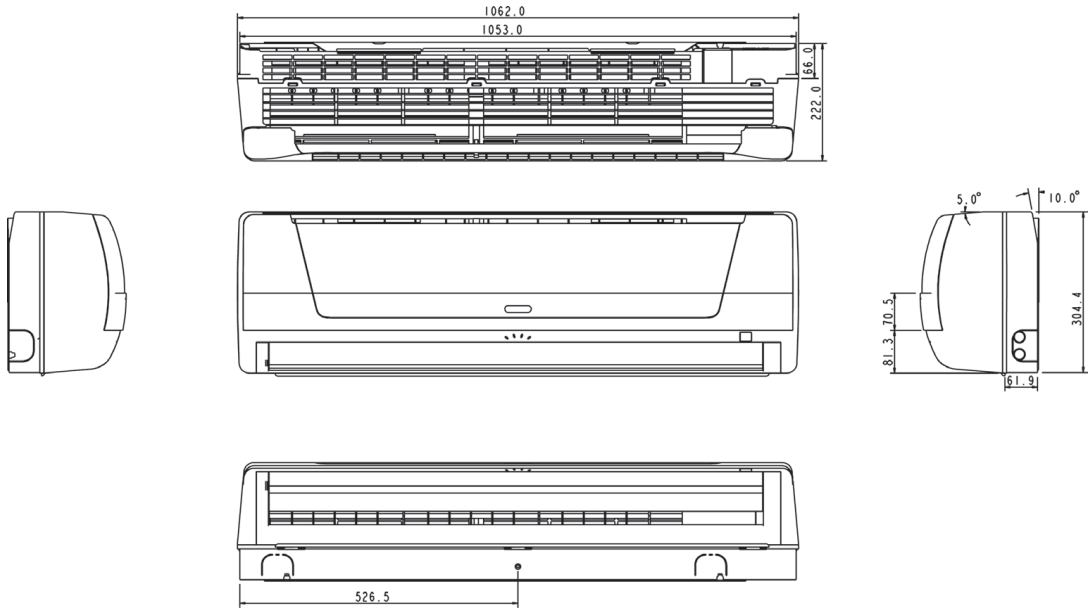
Cooling Only (R22)

Model: MCC060C - MVCU060A
Cooling Mode

ID DB, °C	ID WB, °C	Outdoor DB, °C															
		20		25		30		35		40		46		50		52	
		TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
20	15	16.068	11.077	15.389	10.481	14.710	9.886	14.031	9.291	13.351	8.696	12.536	7.982	11.993	7.506	11.721	7.268
	16	16.834	10.686	16.111	10.112	15.388	9.538	14.665	8.963	13.942	8.389	13.075	7.700	12.496	7.241	12.207	7.011
24	16	16.834	12.720	16.111	12.146	15.388	11.572	14.665	10.998	13.942	10.423	13.075	9.734	12.496	9.275	12.207	9.045
	17	17.600	12.330	16.834	11.776	16.067	11.223	15.300	10.670	14.533	10.116	13.613	9.453	12.999	9.010	12.693	8.789
	18	18.366	11.939	17.556	11.407	16.745	10.874	15.934	10.342	15.124	9.810	14.151	9.171	13.502	8.745	13.178	8.532
	19	19.132	11.549	18.278	11.037	17.424	10.526	16.569	10.014	15.715	9.503	14.689	8.889	14.006	8.480	13.664	8.275
	20	19.896	11.154	18.974	10.633	18.053	10.112	17.131	9.591	16.210	9.070	15.104	8.445	14.367	8.028	13.999	7.819
28	18	18.366	13.973	17.556	13.441	16.745	12.909	15.934	12.376	15.124	11.844	14.151	11.205	13.502	10.779	13.178	10.566
	19	19.132	13.583	18.278	13.071	17.424	12.560	16.569	12.048	15.715	11.537	14.689	10.923	14.006	10.514	13.664	10.309
	20	19.896	13.189	18.974	12.668	18.053	12.146	17.131	11.625	16.210	11.104	15.104	10.479	14.367	10.062	13.999	9.854
	21	20.657	12.792	19.653	12.241	18.649	11.690	17.646	11.139	16.642	10.588	15.437	9.927	14.634	9.486	14.233	9.266
	22	21.419	12.395	20.332	11.814	19.246	11.233	18.160	10.653	17.074	10.072	15.770	9.375	14.901	8.910	14.467	8.678
	23	22.180	11.999	21.011	11.388	19.843	10.777	18.674	10.166	17.505	9.555	16.103	8.822	15.168	8.334	14.701	8.090
	24	22.941	11.602	21.690	10.961	20.439	10.320	19.188	9.680	17.937	9.039	16.436	8.270	15.435	7.758	14.935	7.501
30	20	19.896	14.206	18.974	13.685	18.053	13.164	17.131	12.643	16.210	12.121	15.104	11.496	14.367	11.079	13.999	10.871
	21	20.657	13.809	19.653	13.258	18.649	12.707	17.646	12.156	16.642	11.605	15.437	10.944	14.634	10.503	14.233	10.283
	22	21.419	13.412	20.332	12.832	19.246	12.251	18.160	11.670	17.074	11.089	15.770	10.392	14.901	9.927	14.467	9.695
	23	22.180	13.016	21.011	12.405	19.843	11.794	18.674	11.183	17.505	10.573	16.103	9.840	15.168	9.351	14.701	9.107
	24	22.941	12.619	21.690	11.978	20.439	11.338	19.188	10.697	17.937	10.056	16.436	9.287	15.435	8.775	14.935	8.519
														HIGH AMBIENT			

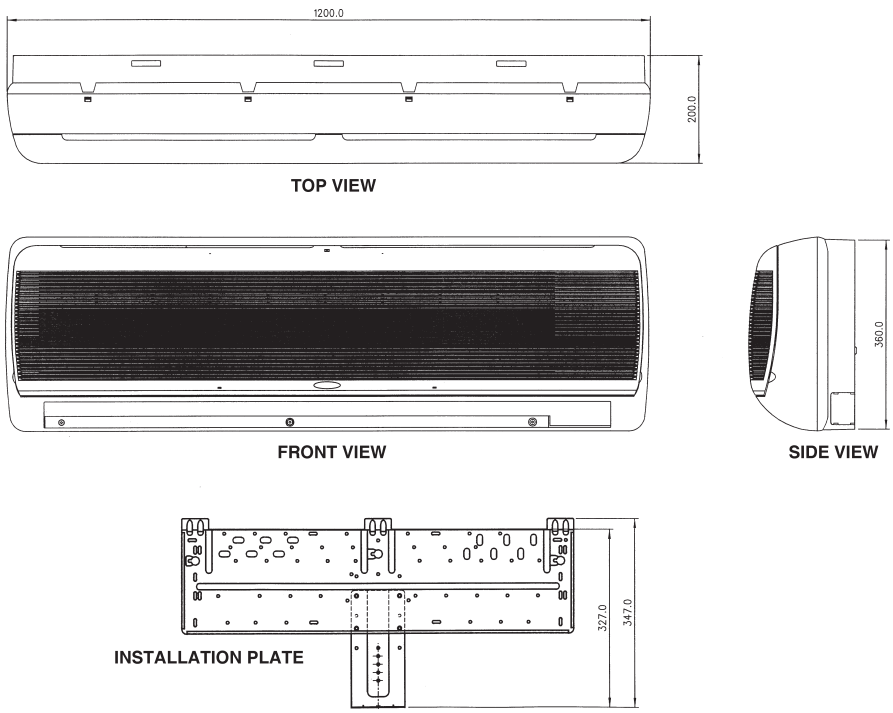
Outline and Dimension

Indoor Unit
Model: MWM025G



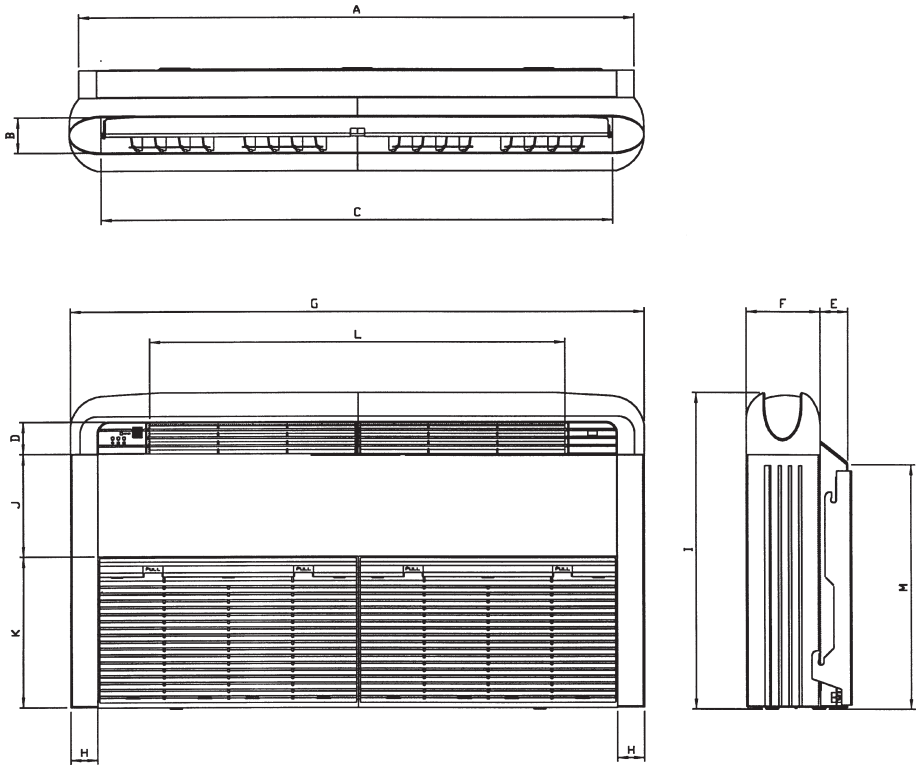
Note: Dimension in mm

Indoor Unit
Model: MWM030F



Note: Dimension in mm

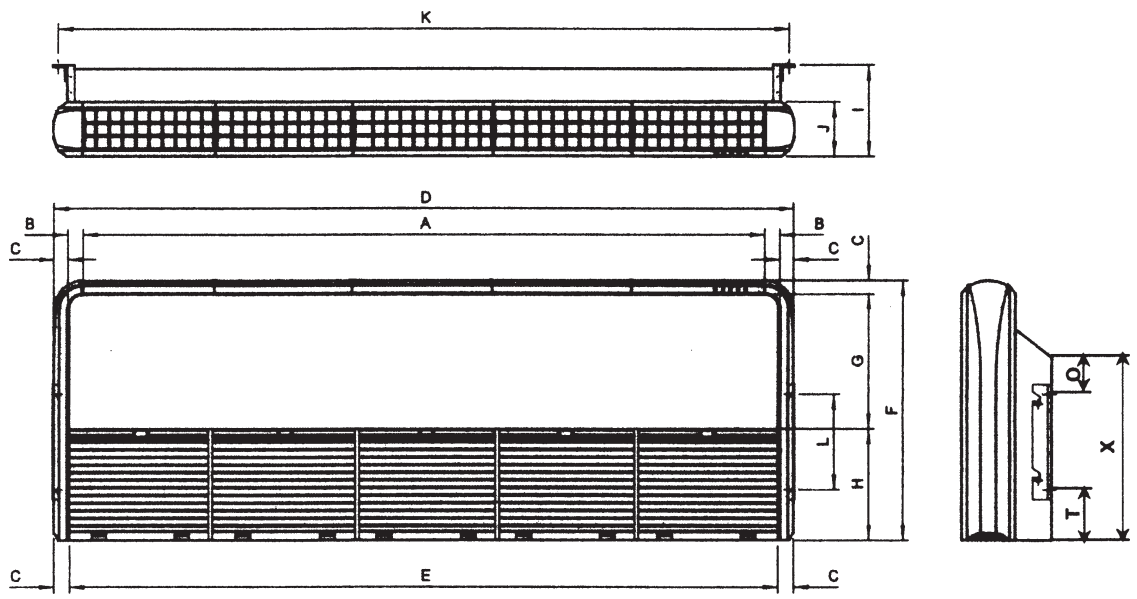
Indoor Unit
Model: MCM025/030/040/050D



Note: Dimension in mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M
MCM025D	1174.0	75.0	1082.0	68.0	58.0	156.0	1214.0	57.0	670.0	216.0	319.0	879.0	517.0
MCM030D	1174.0	75.0	1082.0	68.0	93.0	156.0	1214.0	57.0	670.0	216.0	319.0	879.0	517.0
MCM040D	1674.0	75.0	1582.0	68.0	93.0	156.0	1714.0	57.0	670.0	216.0	319.0	1379.0	517.0
MCM050D	1674.0	75.0	1582.0	68.0	93.0	156.0	1714.0	57.0	670.0	216.0	319.0	1379.0	517.0

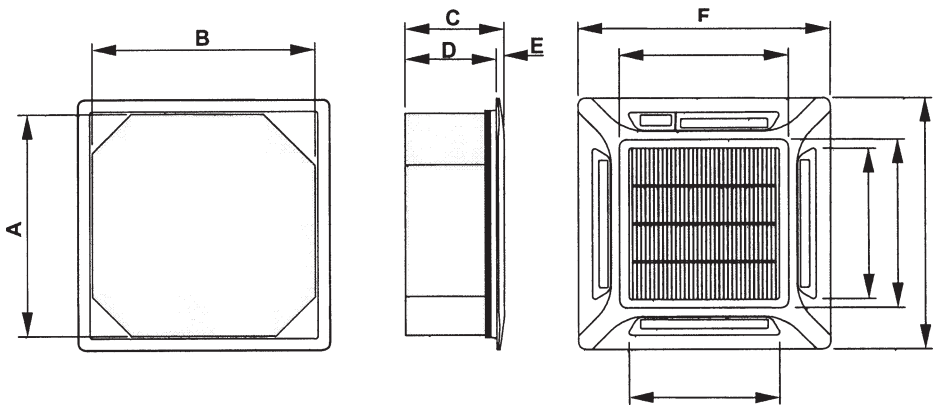
Indoor Unit
Model: MCM062C



Note: Dimension in mm

Model	A (Grill)	B	C	D	E	F	G	H	I	J	K	L	O	T	X
MCM062C	1750.0	40.0	36.0	1930.0	1830.0	680.0	352.0	292.0	285.0	140.0	1880.0	250.0	126.0	132.0	508.0

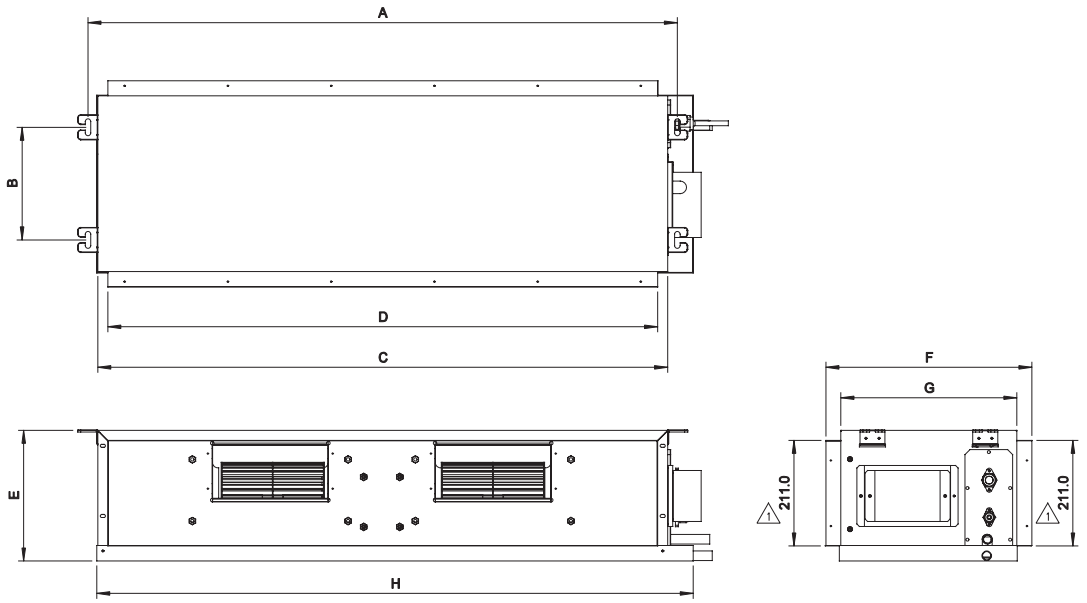
Indoor Unit
Model: MCK025/030/040/050A



Note: Dimension in mm

Model	A	B	C	D	E	F	G	H	I	J	K
MCK-A	820.0	820.0	378.0	350.0	28.0	930.0	930.0	626.0	626.0	555.0	555.0

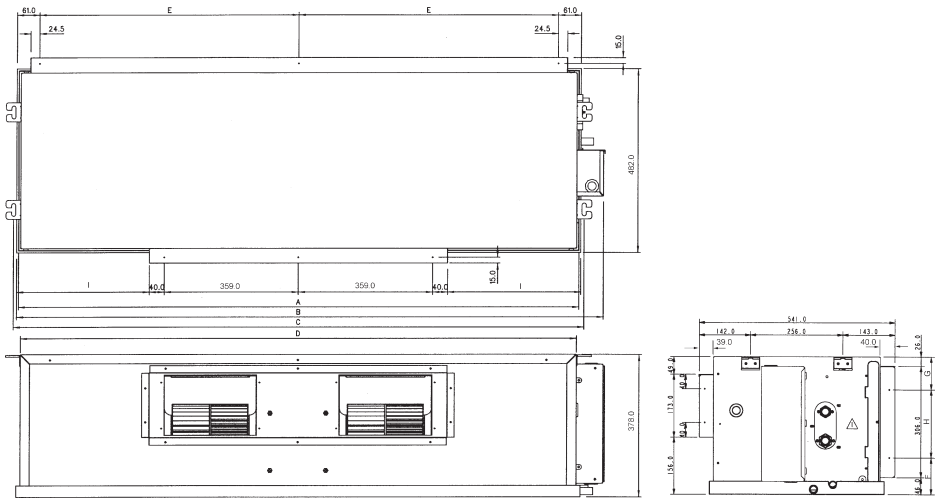
Indoor Unit
Model: MCC025C



Note: Dimension in mm

Model	A	B	C	D	E	F	G	H
MCC025C	1176.0	225.0	1137.0	1097.0	261.0	411.0	351.0	1200.0

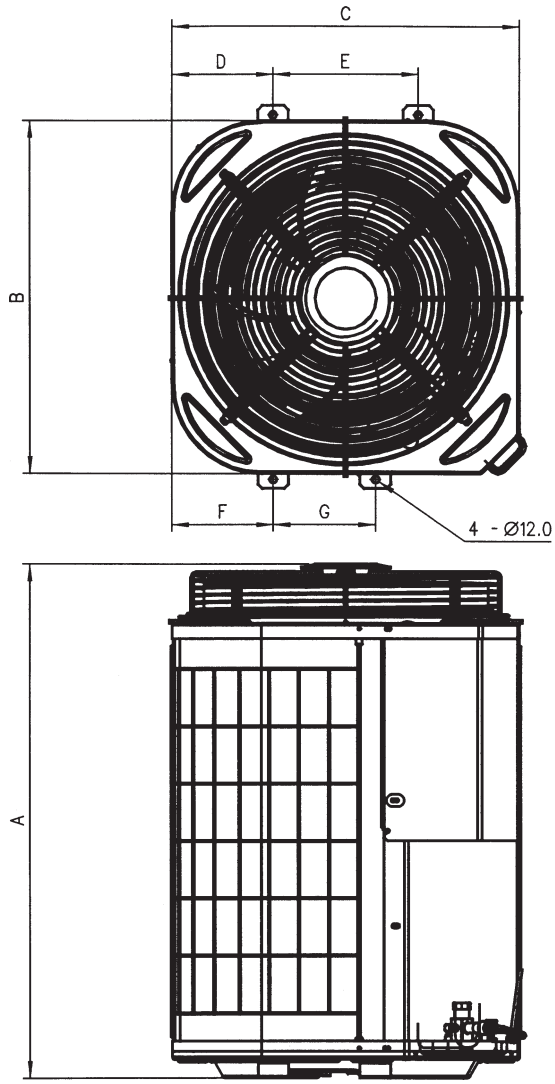
Indoor Unit
Model: MCC030/040/050/060C



Note: Dimension in mm

Model	A	B	C	D	E	F	G	H	I
MCC030C	929.0	999.0	956.0	917.0	408.5	105.0	85.5	187.5	70.5
MCC040C	1045.0	1115.0	1072.0	1033.0	466.5	105.0	85.5	187.5	128.5
MCC050C	1299.0	1369.0	1326.0	1287.0	593.5	105.0	90.5	182.5	255.5
MCC060C	1499.0	1569.0	1526.0	1487.0	693.5	100.0	90.5	187.5	355.5

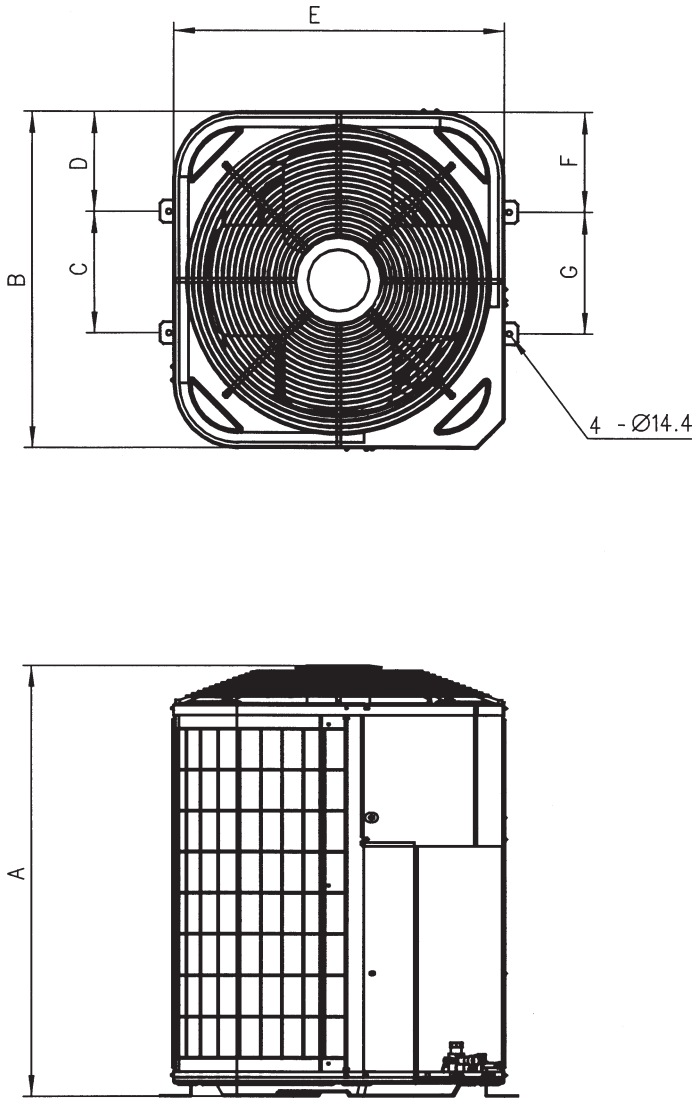
Outdoor Unit
Model: MVCU025/030/035A



Note: Dimension in mm

Model	A	B	C	D	E	F	G
MVCU025/030/035A	841.0	572.0	572.0	1168.0	236.0	168.0	166.0

Outdoor Unit
Model: MVCU040/050/060A



Note: Dimension in mm

Model	A	B	C	D	E	F	G
MVCU040A	984.0	762.0	275.0	225.0	762.0	225.0	275.0
MVCU050/060A	1086.0	762.0	275.0	225.0	762.0	225.0	275.0

Electrical Data

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MWM025G	MWM030F
	OUTDOOR UNIT		MVCU025A	MVCU030A
INDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	66	71
	RATED RUNNING CURRENT	A	0.29	0.30
	MOTOR OUTPUT	W	25	40
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	137	140
	RATED RUNNING CURRENT	A	0.69	0.62
	MOTOR OUTPUT	W	65	65
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	380 - 415 / 3 / 50
	CAPACITOR	µF	50	NIL
	RATED INPUT POWER	W	2238	2684
	RATED RUNNING CURRENT	A	11.5	4.8
	LOCKED ROTOR AMP.	A	63	40

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MCM025D	MCM030D
	OUTDOOR UNIT		MVCU025A	MVCU030A
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	110	110
	RATED RUNNING CURRENT	A	0.49	0.49
	MOTOR OUTPUT	W	65	65
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	137	140
	RATED RUNNING CURRENT	A	0.69	0.62
	MOTOR OUTPUT	W	65	65
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	380 - 415 / 3 / 50
	CAPACITOR	µF	50	NIL
	RATED INPUT POWER	W	2238	2684
	RATED RUNNING CURRENT	A	11.5	4.8
	LOCKED ROTOR AMP.	A	63	40

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MCM040D	MCM040D
	OUTDOOR UNIT		MVCU035A	MVCU040A
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	153	153
	RATED RUNNING CURRENT	A	0.68	0.68
	MOTOR OUTPUT	W	100	100
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	275	248
	RATED RUNNING CURRENT	A	1.20	1.14
	MOTOR OUTPUT	W	140	100
	POLES		4	6
COMPRESSOR	INSULATION GRADE		NIL	NIL
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
	CAPACITOR	µF	NIL	NIL
	RATED INPUT POWER	W	2962	2819
	RATED RUNNING CURRENT	A	5.3	5.2
	LOCKED ROTOR AMP.	A	46	48

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MCM050D	MCM062C
	OUTDOOR UNIT		MVCU050A	MVCU060A
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	171	327
	RATED RUNNING CURRENT	A	0.76	1.40
	MOTOR OUTPUT	W	100	80 x 2
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	285	285
	RATED RUNNING CURRENT	A	1.28	1.28
	MOTOR OUTPUT	W	165	165
	POLES		6	6
COMPRESSOR	INSULATION GRADE		NIL	NIL
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
	CAPACITOR	µF	NIL	NIL
	RATED INPUT POWER	W	3829	4529
	RATED RUNNING CURRENT	A	7.5	7.9
	LOCKED ROTOR AMP.	A	66	74

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MCK025A	MCK030A
	OUTDOOR UNIT		MVCU025A	MVCU030A
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	138	153
	RATED RUNNING CURRENT	A	0.61	0.67
	MOTOR OUTPUT	W	50	60
	POLES		6	6
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	137	140
	RATED RUNNING CURRENT	A	0.69	0.62
	MOTOR OUTPUT	W	65	65
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	380 - 415 / 3 / 50
	CAPACITOR	µF	50	NIL
	RATED INPUT POWER	W	2238	2684
	RATED RUNNING CURRENT	A	11.5	4.8
	LOCKED ROTOR AMP.	A	63	40

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Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MCK040A	MCK040A
	OUTDOOR UNIT		MVCU035A	MVCU040A
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	184	184
	RATED RUNNING CURRENT	A	0.80	0.80
	MOTOR OUTPUT	W	83	83
	POLES		6	6
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	275	248
	RATED RUNNING CURRENT	A	1.20	1.14
	MOTOR OUTPUT	W	140	100
	POLES		4	6
COMPRESSOR	INSULATION GRADE		NIL	NIL
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
	CAPACITOR	µF	NIL	NIL
	RATED INPUT POWER	W	2962	2819
	RATED RUNNING CURRENT	A	5.3	5.2
	LOCKED ROTOR AMP.	A	46	48

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MCK050A
	OUTDOOR UNIT		MVCU050A
INDOOR MOTOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50
	RATED INPUT POWER	W	232
	RATED RUNNING CURRENT	A	1.02
	MOTOR OUTPUT	W	120
	POLES		6
OUTDOOR MOTOR	INSULATION GRADE		CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50
	RATED INPUT POWER	W	285
	RATED RUNNING CURRENT	A	1.28
	MOTOR OUTPUT	W	165
	POLES		6
COMPRESSOR	INSULATION GRADE		NIL
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50
	CAPACITOR	µF	NIL
	RATED INPUT POWER	W	3829
	RATED RUNNING CURRENT	A	7.5
	LOCKED ROTOR AMP.	A	66

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MCC025C	MCC030C
	OUTDOOR UNIT		MVCU025A	MVCU030A
INDOOR MOTOR	INSULATION GRADE		CLASS E	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	152	355
	RATED RUNNING CURRENT	A	0.67	1.57
	MOTOR OUTPUT	W	100	320
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	137	140
	RATED RUNNING CURRENT	A	0.69	0.62
	MOTOR OUTPUT	W	65	65
	POLES		6	6
COMPRESSOR	INSULATION GRADE		CLASS E	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	380 - 415 / 3 / 50
	CAPACITOR	µF	50	NIL
	RATED INPUT POWER	W	2238	2684
	RATED RUNNING CURRENT	A	11.5	4.8
	LOCKED ROTOR AMP.	A	63	40

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MCC040C	MCC040C
	OUTDOOR UNIT		MVCU035A	MVCU040A
INDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS B
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	448	448
	RATED RUNNING CURRENT	A	1.98	1.98
	MOTOR OUTPUT	W	400	400
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	275	248
	RATED RUNNING CURRENT	A	1.20	1.14
	MOTOR OUTPUT	W	140	100
	POLES		4	6
COMPRESSOR	INSULATION GRADE		NIL	NIL
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
	CAPACITOR	µF	NIL	NIL
	RATED INPUT POWER	W	2962	2819
	RATED RUNNING CURRENT	A	5.3	5.2
	LOCKED ROTOR AMP.	A	46	48

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MCC050C	MCC060C
	OUTDOOR UNIT		MVCU050A	MVCU060A
INDOOR MOTOR	INSULATION GRADE		CLASS B	CLASS E
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	510	748
	RATED RUNNING CURRENT	A	2.26	3.20
	MOTOR OUTPUT	W	480	600
	POLES		4	4
OUTDOOR MOTOR	INSULATION GRADE		CLASS F	CLASS F
	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	RATED INPUT POWER	W	285	285
	RATED RUNNING CURRENT	A	1.28	1.28
	MOTOR OUTPUT	W	165	165
	POLES		6	6
COMPRESSOR	INSULATION GRADE		NIL	NIL
	POWER SOURCE	V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50
	CAPACITOR	µF	NIL	NIL
	RATED INPUT POWER	W	3829	4529
	RATED RUNNING CURRENT	A	7.5	7.9
	LOCKED ROTOR AMP.	A	66	74

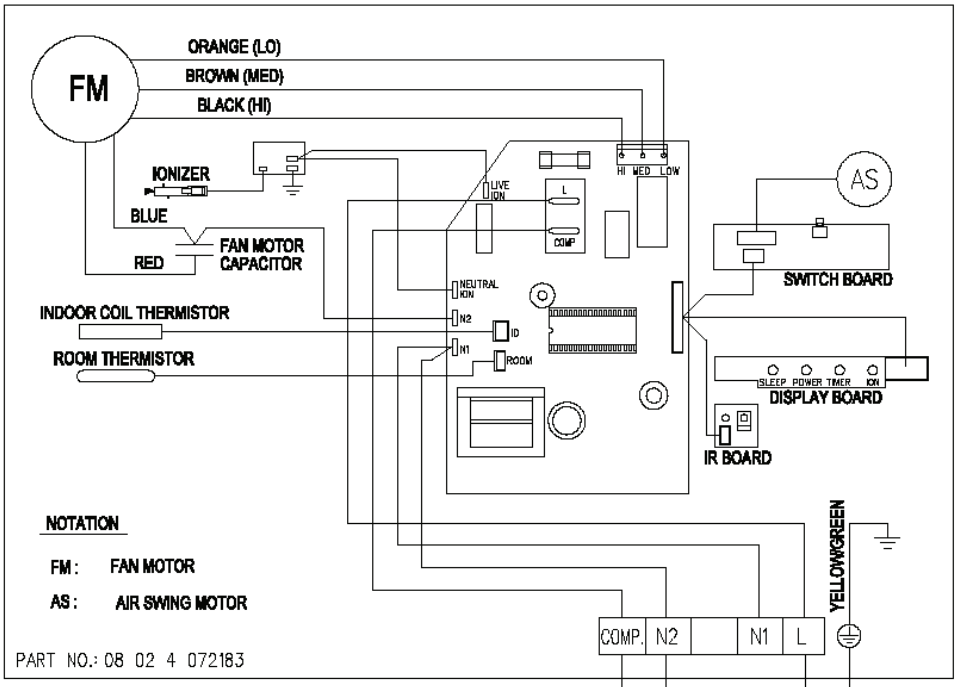
1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

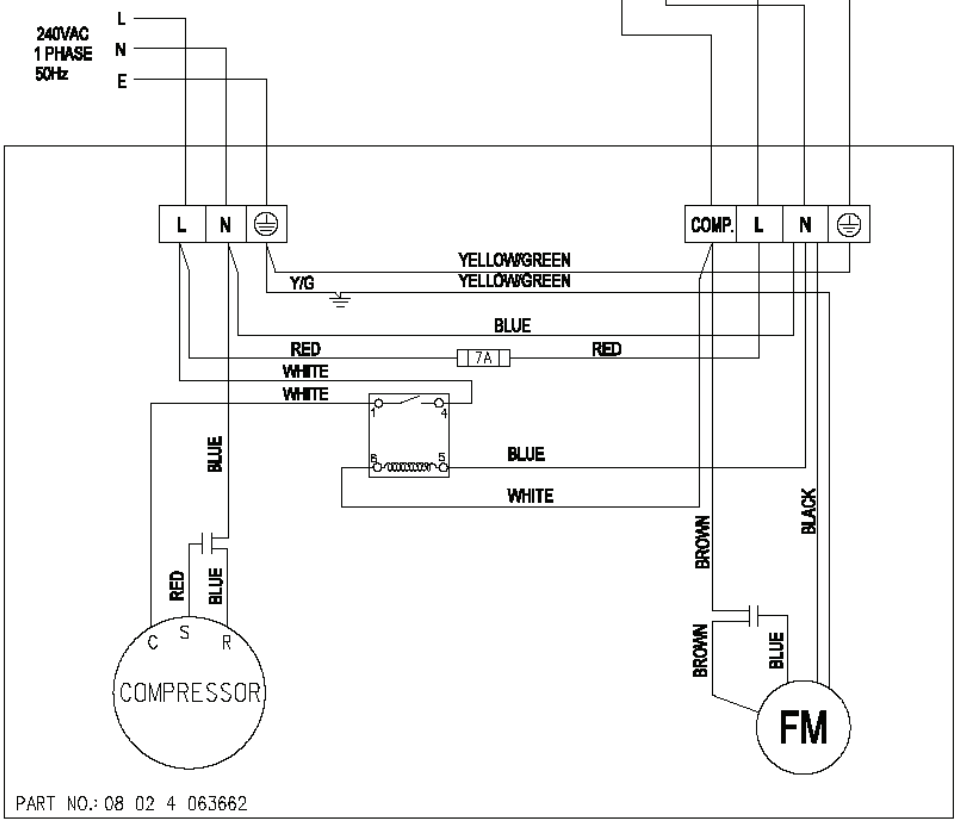
Wiring Diagram

Cooling Only

Indoor Unit
Model: MWM025G

Outdoor Unit
Model: MVCU025A

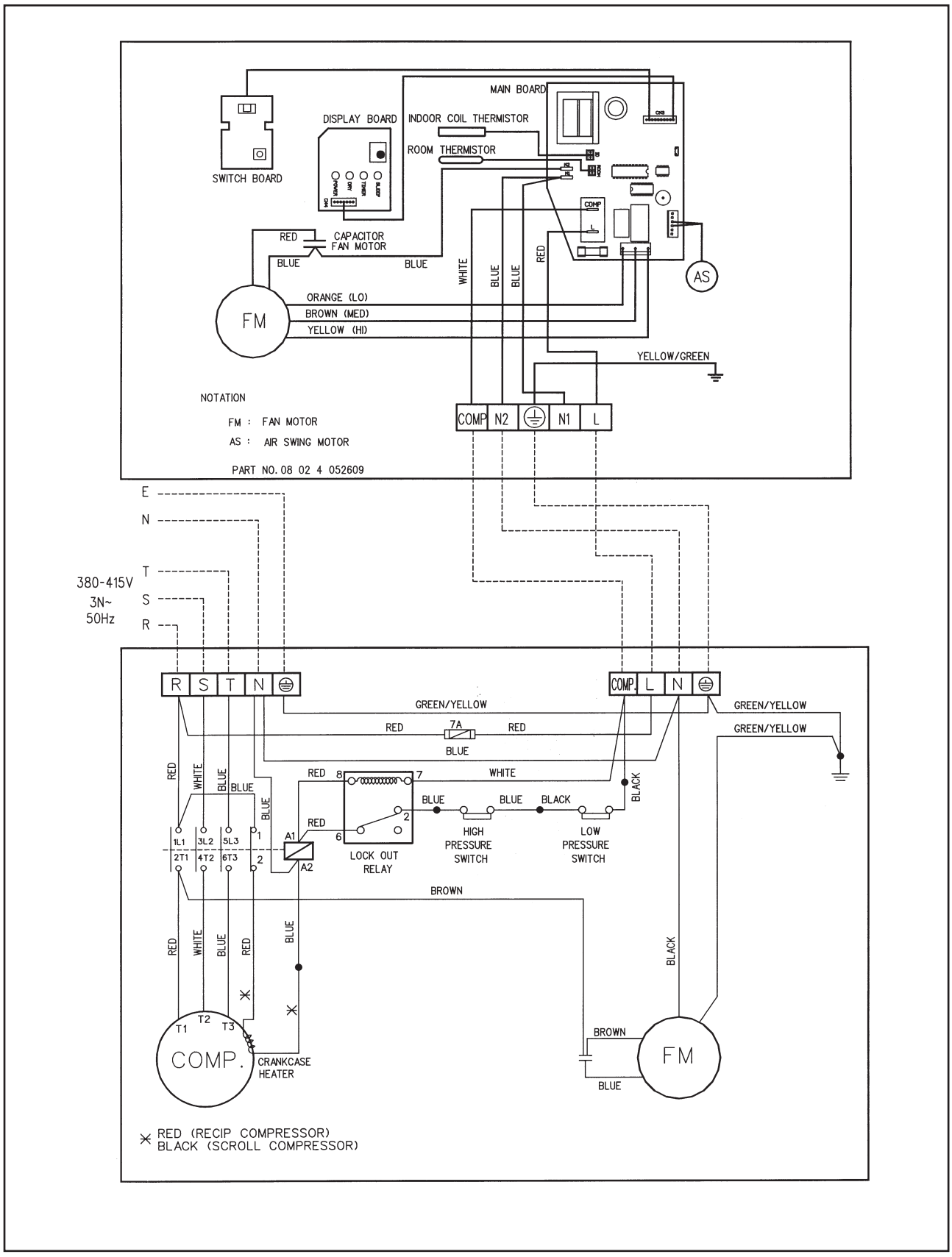




Cooling Only

Indoor Unit
Model: MWM030F

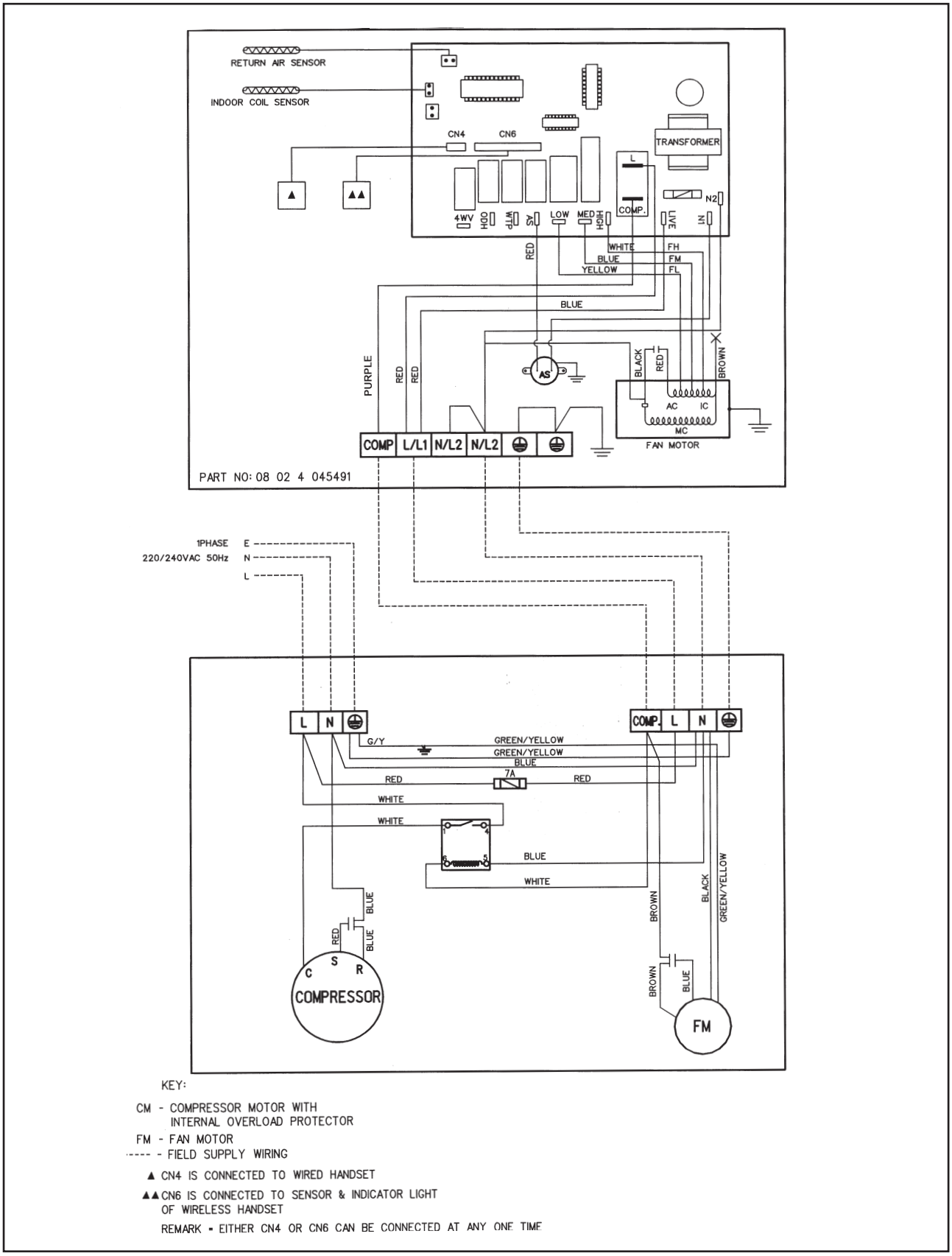
Outdoor Unit
Model: MVCU030A



Cooling Only

Indoor Unit
Model: MCM025D

Outdoor Unit
Model: MVCU025A



KEY:

CM - COMPRESSOR MOTOR WITH
INTERNAL OVERLOAD PROTECTOR

FM - FAN MOTOR

----- - FIELD SUPPLY WIRING

▲ CN4 IS CONNECTED TO WIRED HANDSET

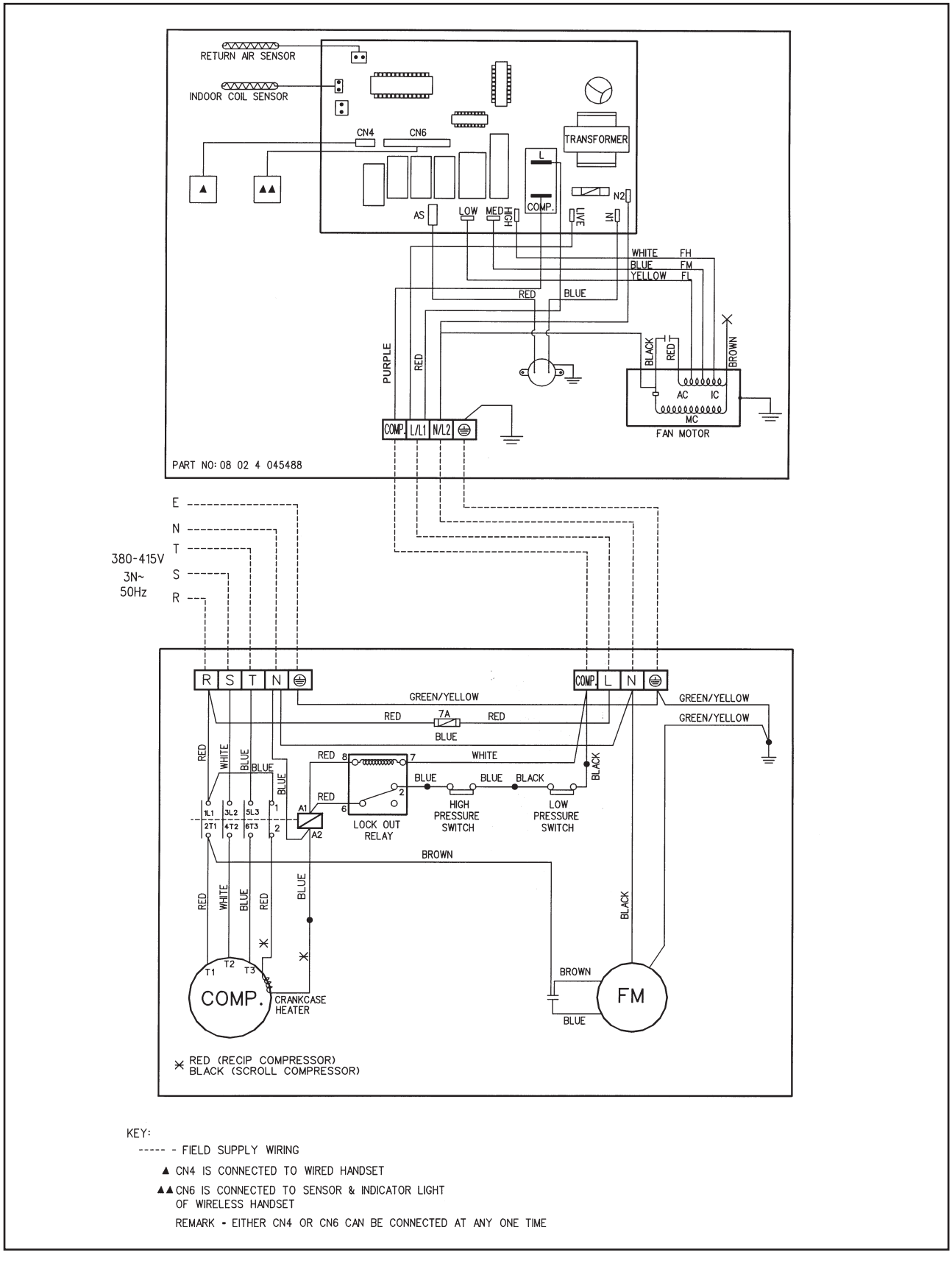
▲▲ CN6 IS CONNECTED TO SENSOR & INDICATOR LIGHT OF WIRELESS HANDSET

REMARK - EITHER CN4 OR CN6 CAN BE CONNECTED AT ANY ONE TIME

Cooling Only

Indoor Unit
Model: MCM030D

Outdoor Unit
Model: MVCU030A



KEY:

----- - FIELD SUPPLY WIRING

▲ CN4 IS CONNECTED TO WIRED HANDSET

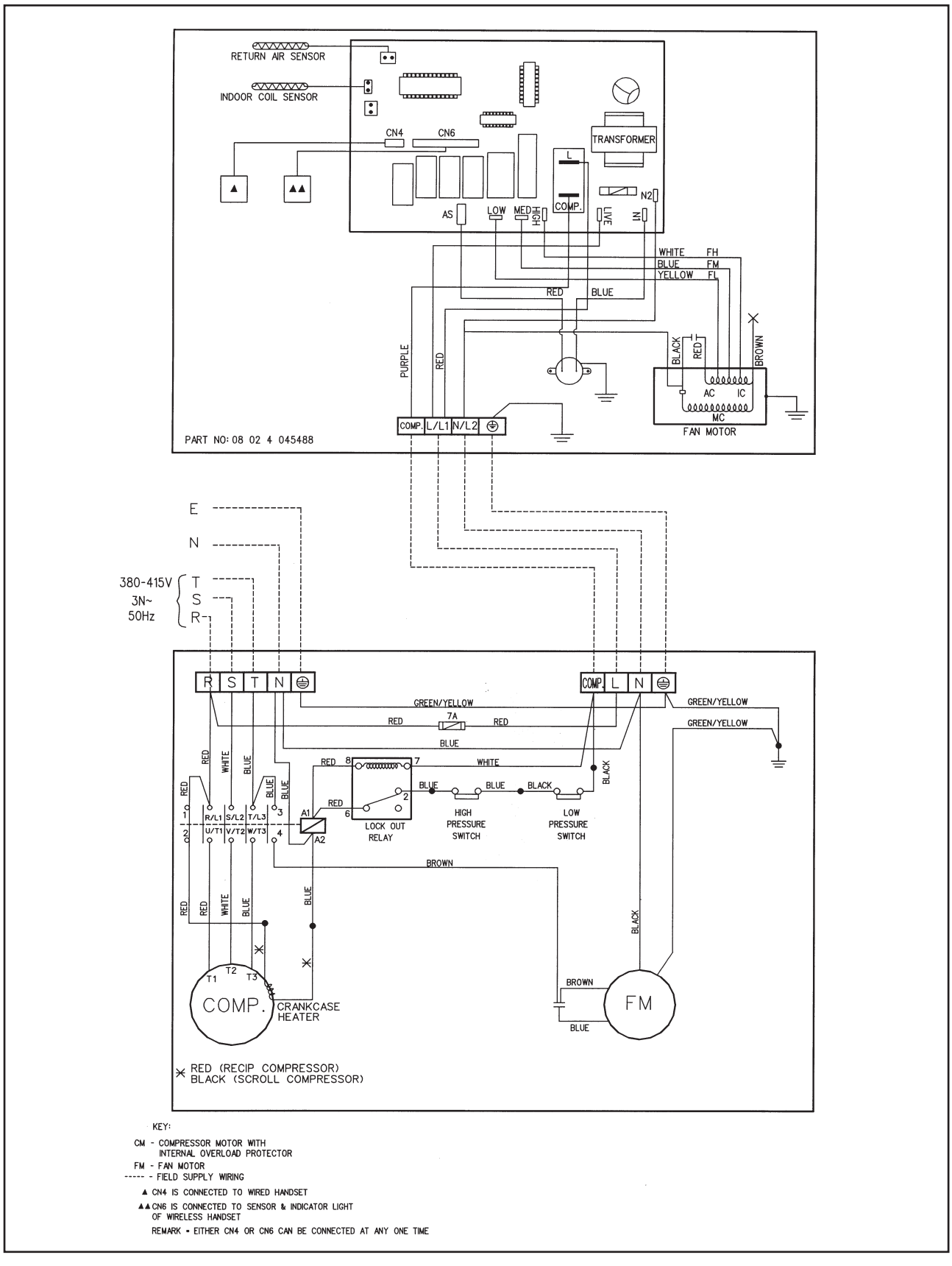
▲▲ CN6 IS CONNECTED TO SENSOR & INDICATOR LIGHT OF WIRELESS HANDSET

REMARK - EITHER CN4 OR CN6 CAN BE CONNECTED AT ANY ONE TIME

Cooling Only

Indoor Unit
Model: MCM040D

Outdoor Unit
Model: MVCU035A



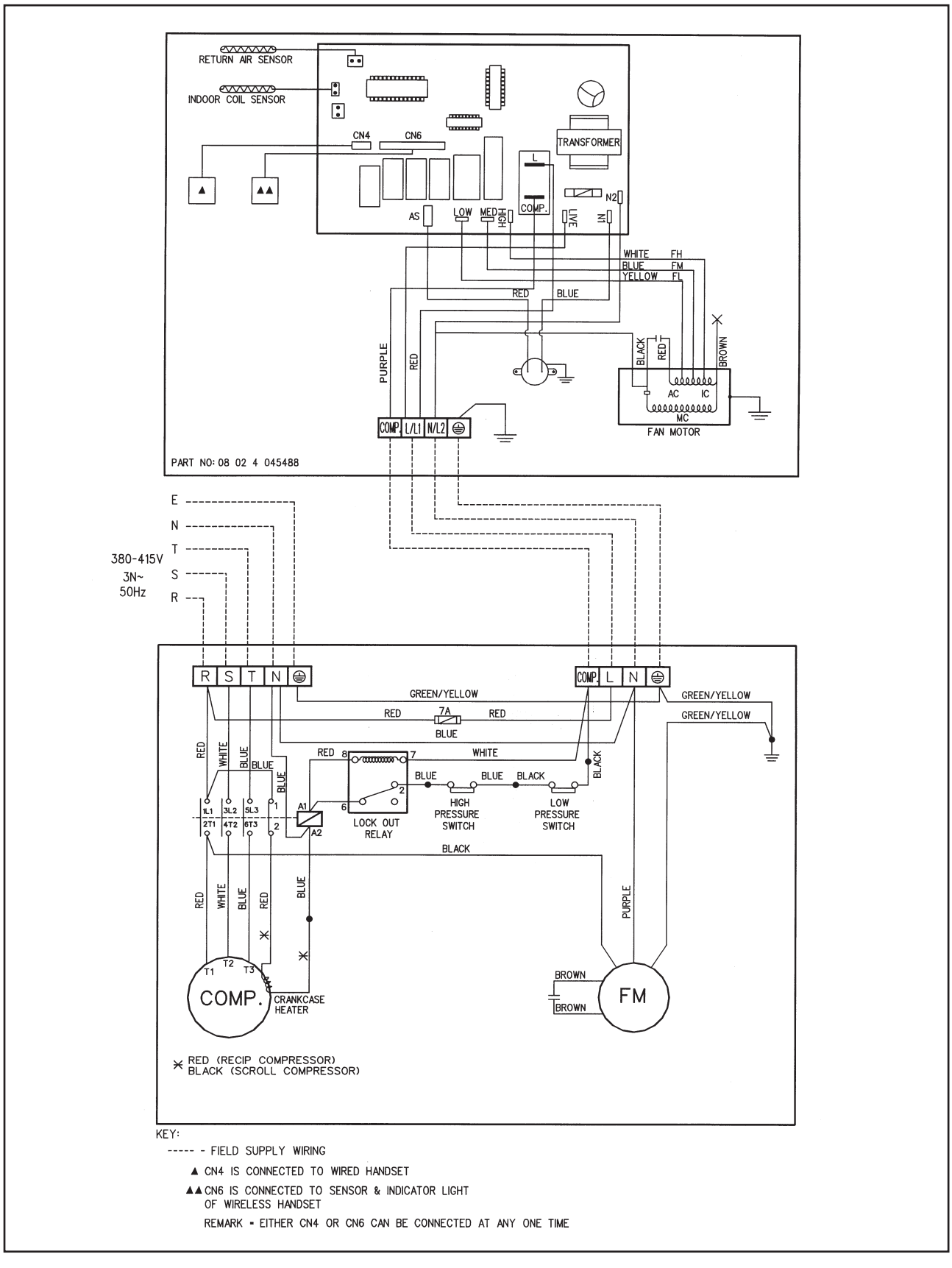
KEY:

CM - COMPRESSOR MOTOR WITH INTERNAL OVERLOAD PROTECTOR
FM - FAN MOTOR
----- - FIELD SUPPLY WIRING
▲ CN4 IS CONNECTED TO WIRED HANDSET
▲▲ CN6 IS CONNECTED TO SENSOR & INDICATOR LIGHT OF WIRELESS HANDSET
REMARK : EITHER CN4 OR CN6 CAN BE CONNECTED AT ANY ONE TIME

Cooling Only

Indoor Unit
Model: MCM040D
MCM050D

Outdoor Unit
Model: MVCU040A
MVCU050A



KEY:

----- - FIELD SUPPLY WIRING

▲ CN4 IS CONNECTED TO WIRED HANDSET

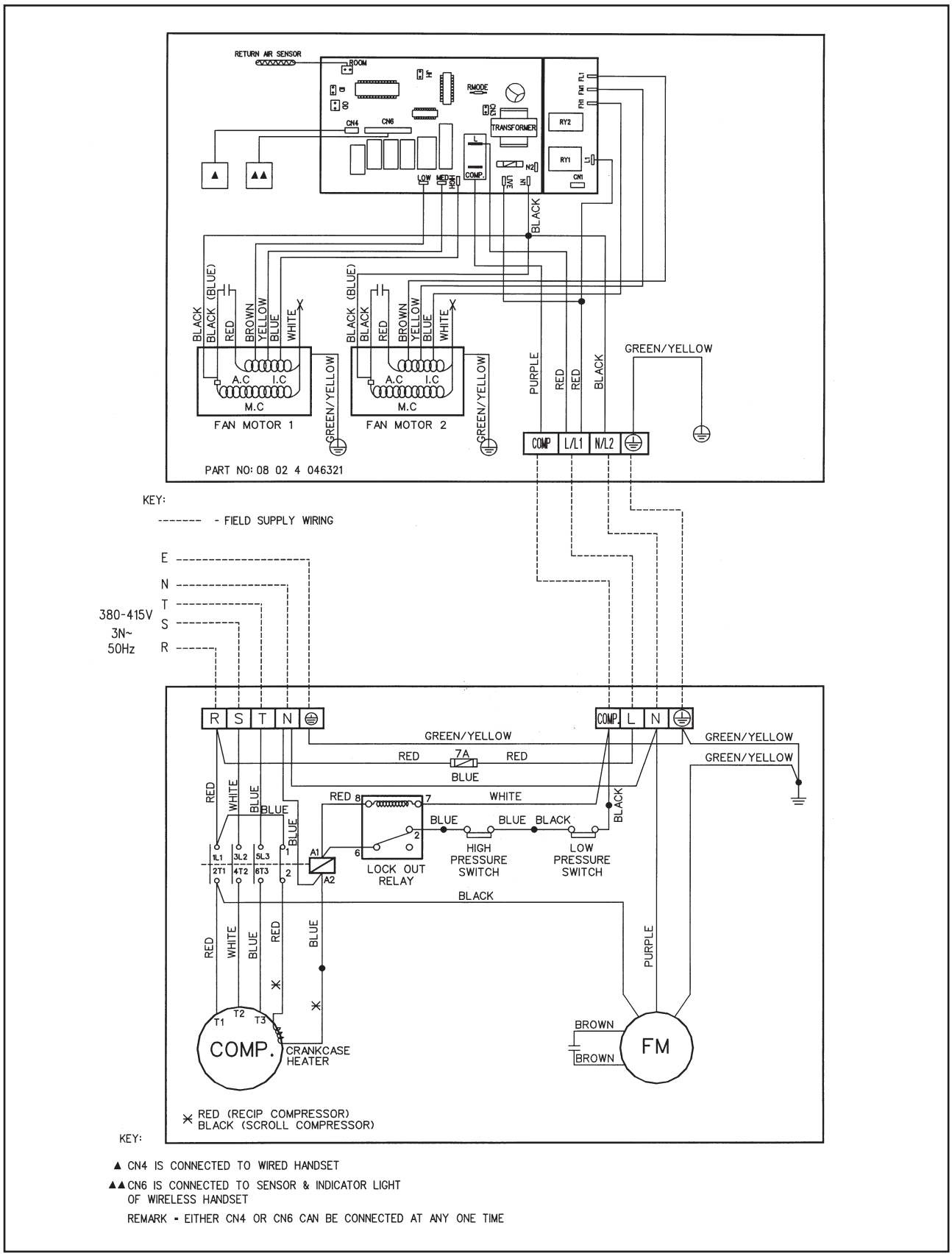
▲▲ CN6 IS CONNECTED TO SENSOR & INDICATOR LIGHT OF WIRELESS HANDSET

REMARK - EITHER CN4 OR CN6 CAN BE CONNECTED AT ANY ONE TIME

Cooling Only

Indoor Unit
Model: MCM062C

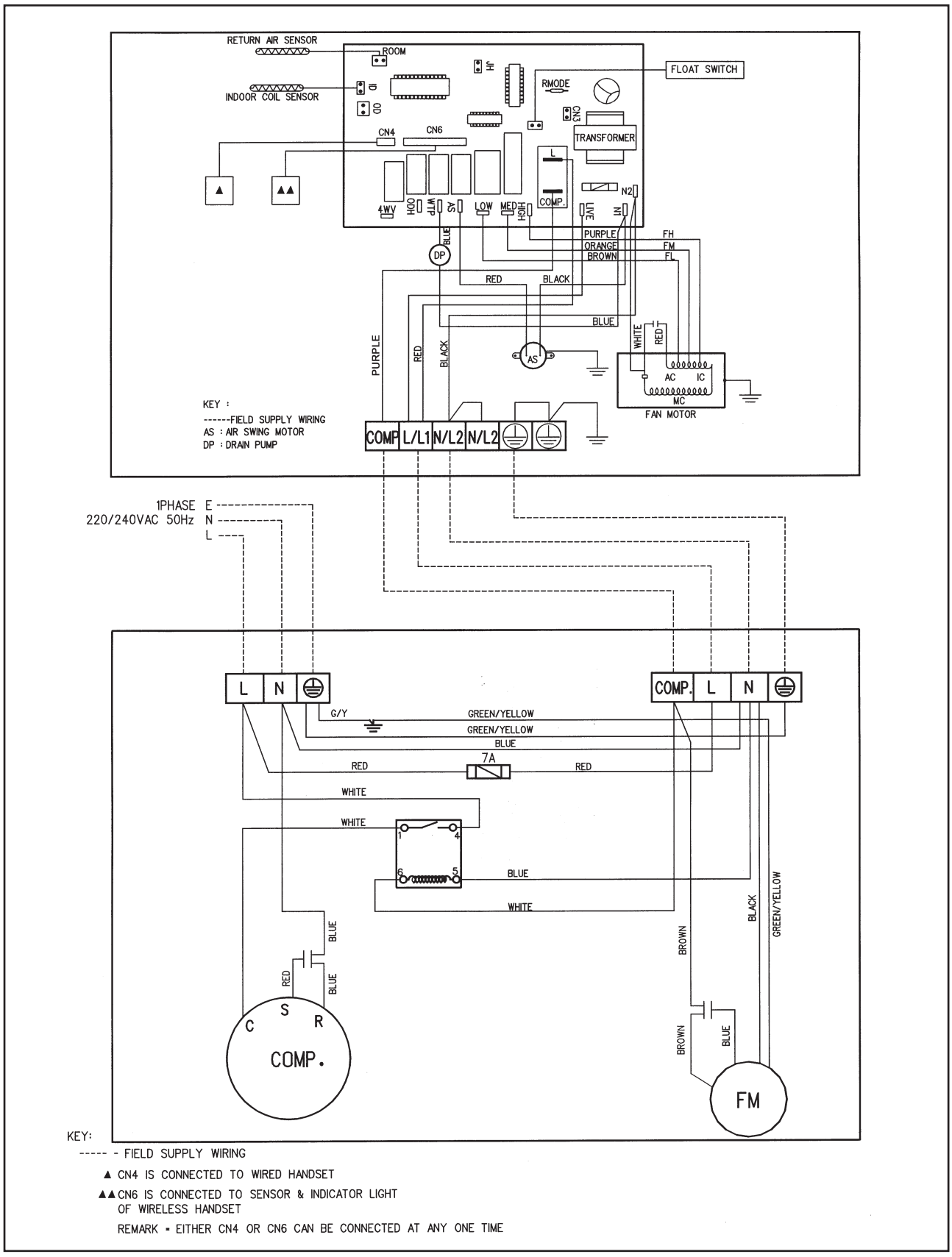
Outdoor Unit
Model: MVCU060A



Cooling Only

Indoor Unit
Model: MCK025A

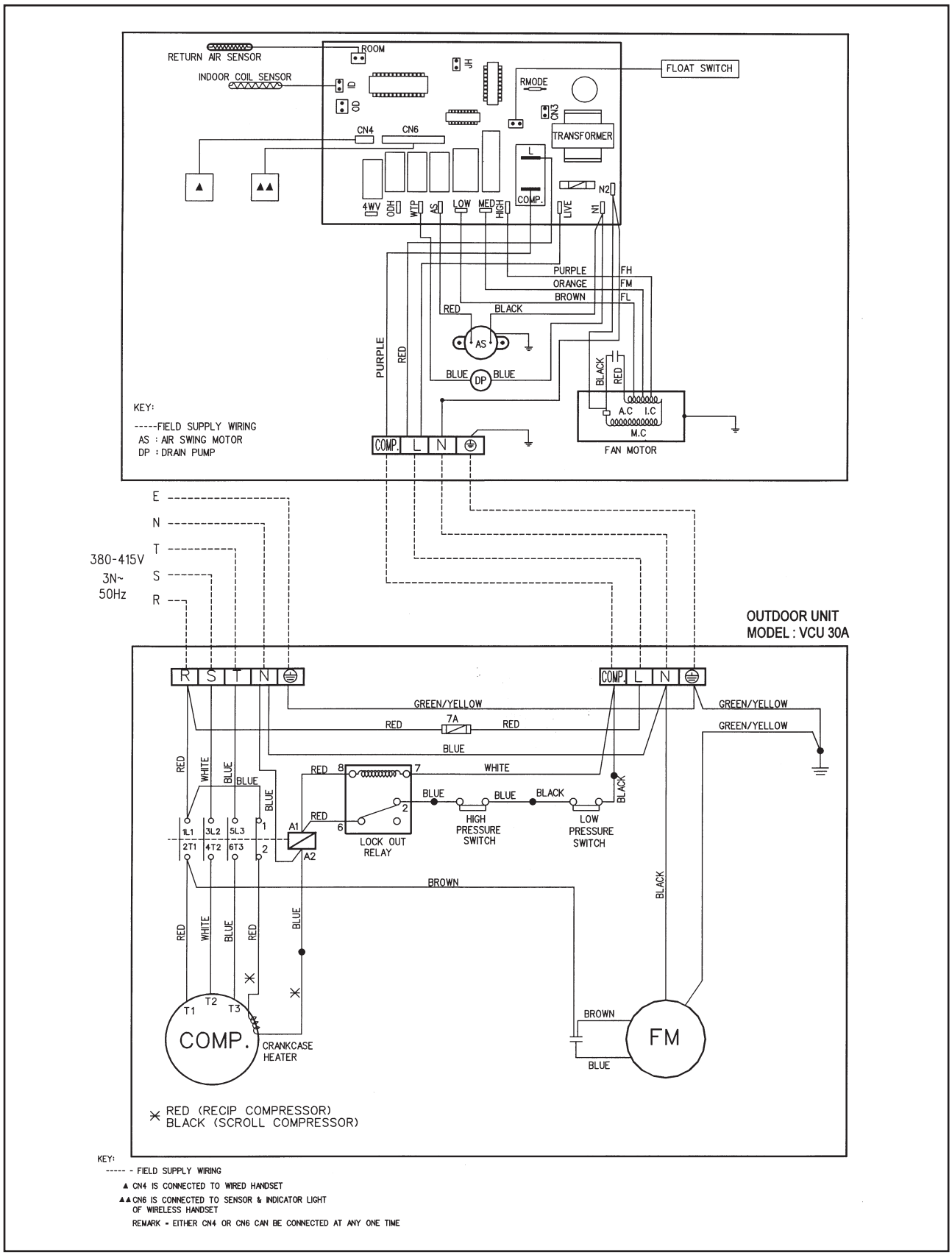
Outdoor Unit
Model: MVCU025A



Cooling Only

Indoor Unit
Model: MCK030A

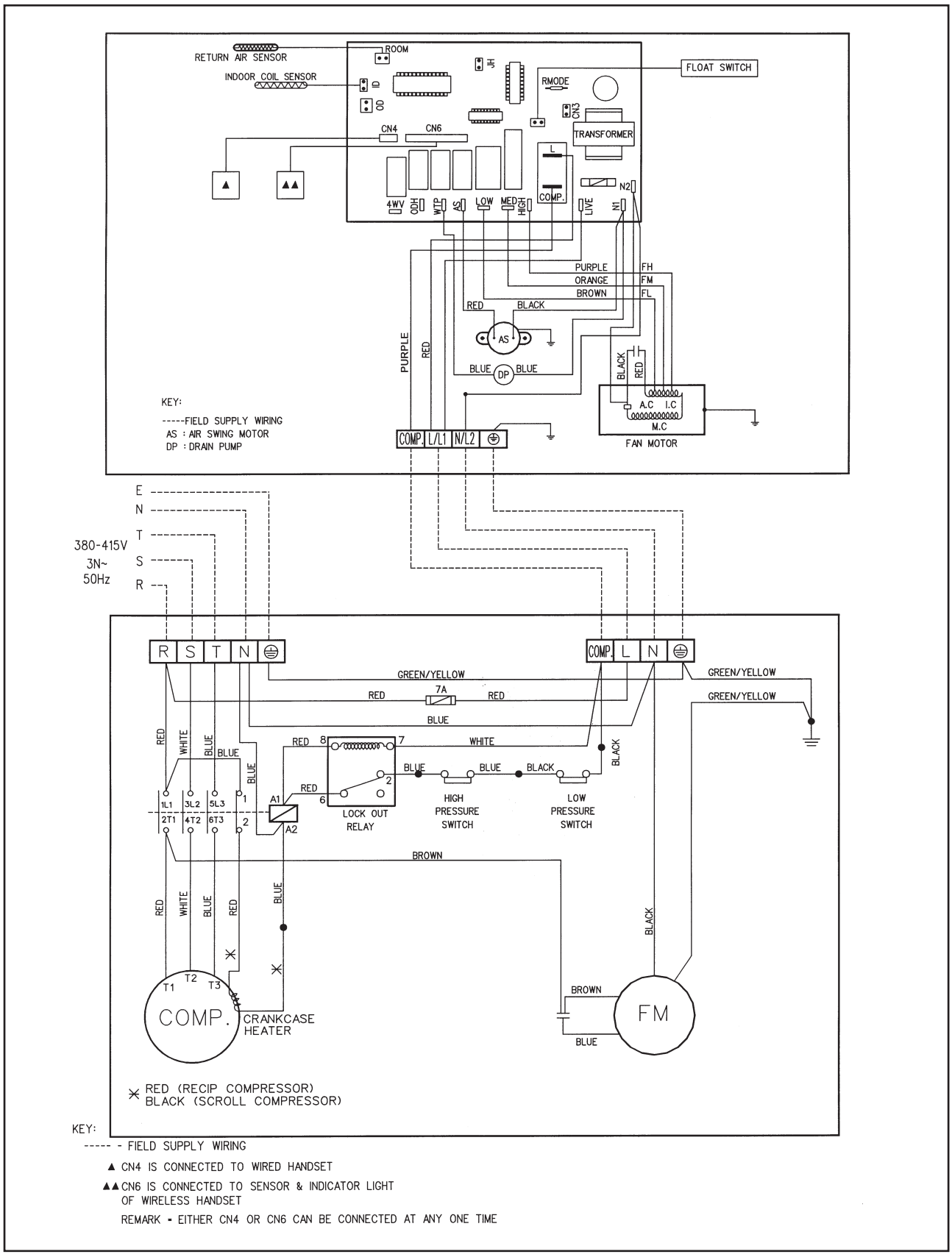
Outdoor Unit
Model: MVCU030A



Cooling Only

Indoor Unit
Model: MCK040A

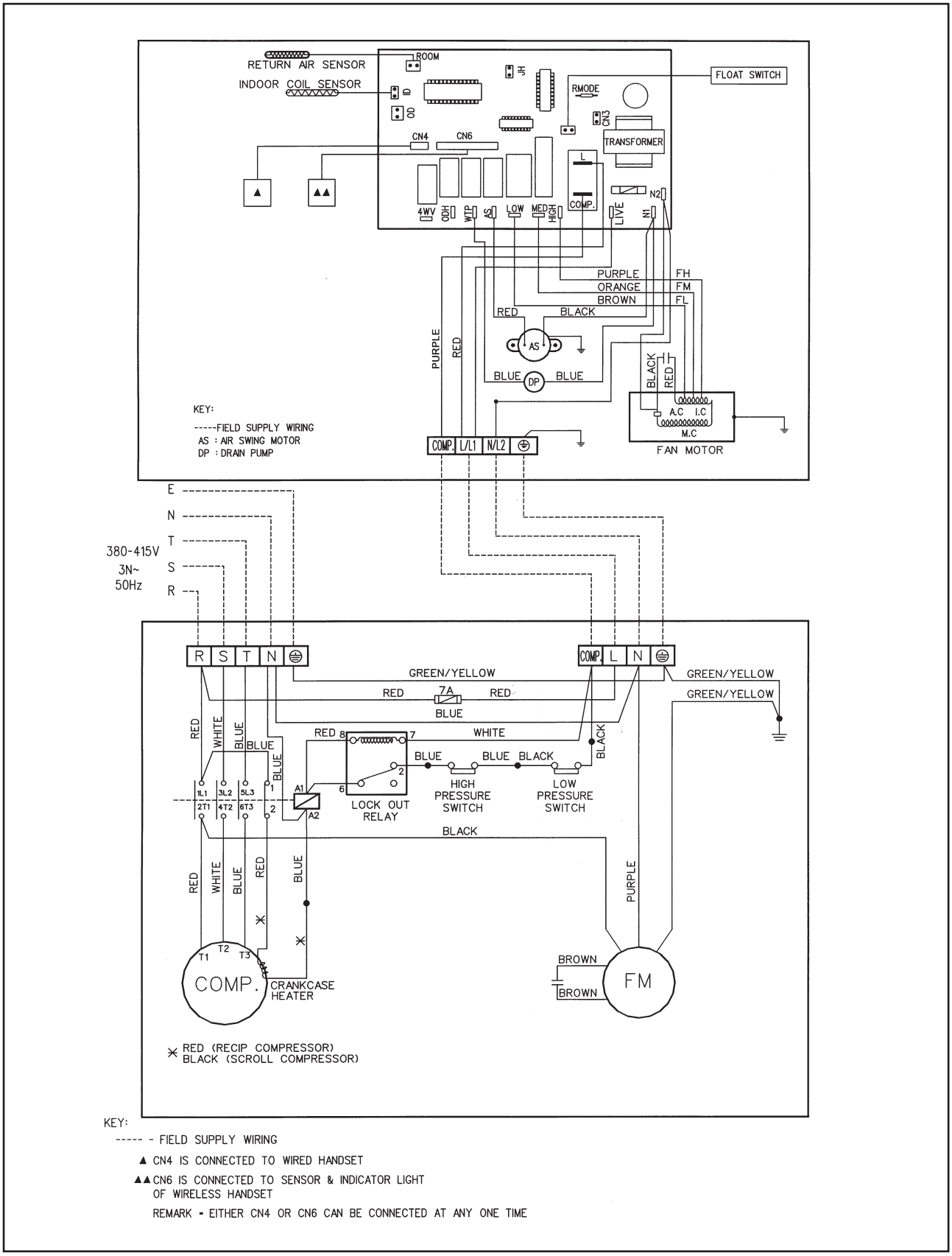
Outdoor Unit
Model: MVCU035A



Cooling Only

Indoor Unit
Model: MCK040A
MCK050A

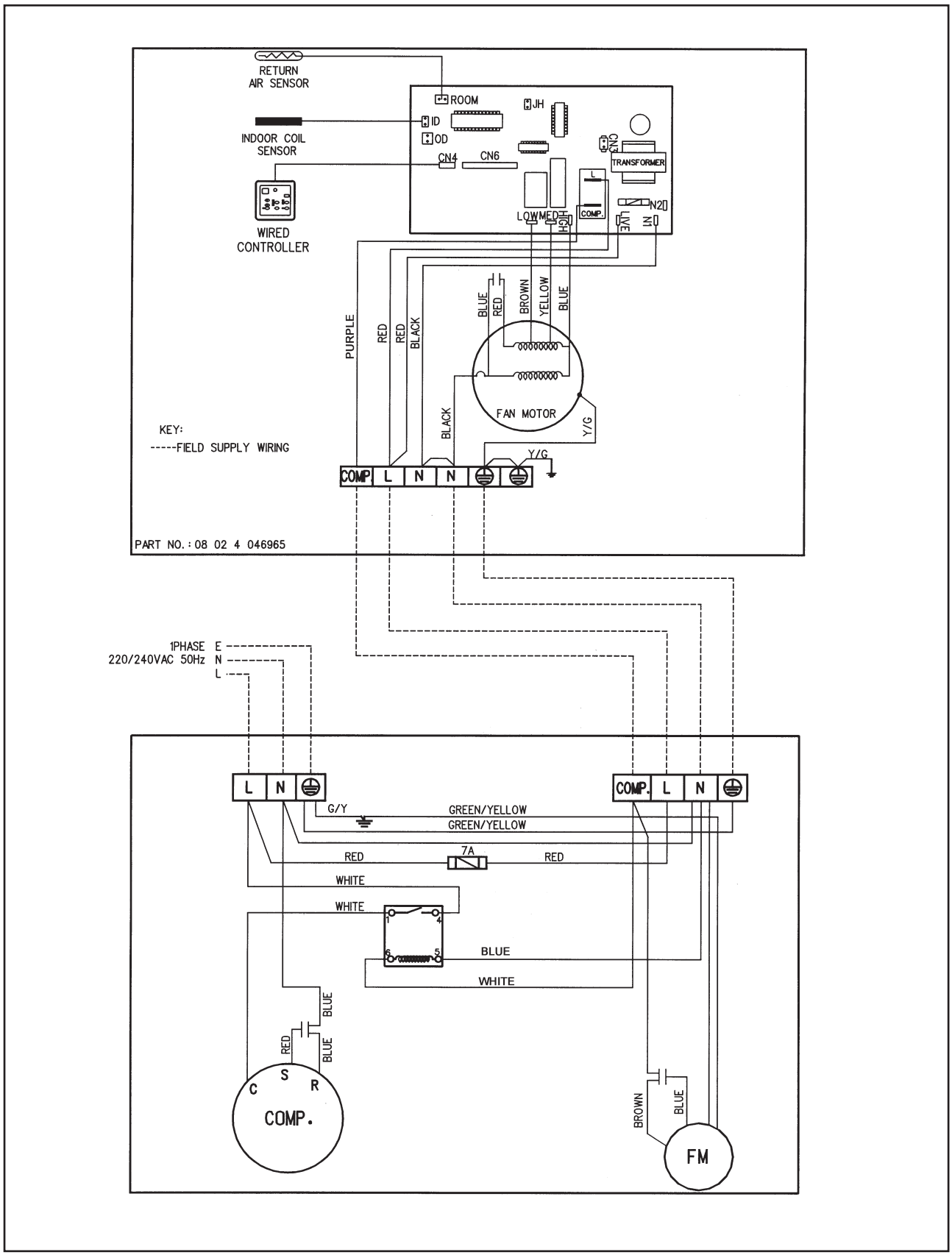
Outdoor Unit
Model: MVCU040A
MVCU050A



Cooling Only

Indoor Unit
Model: MCC025C

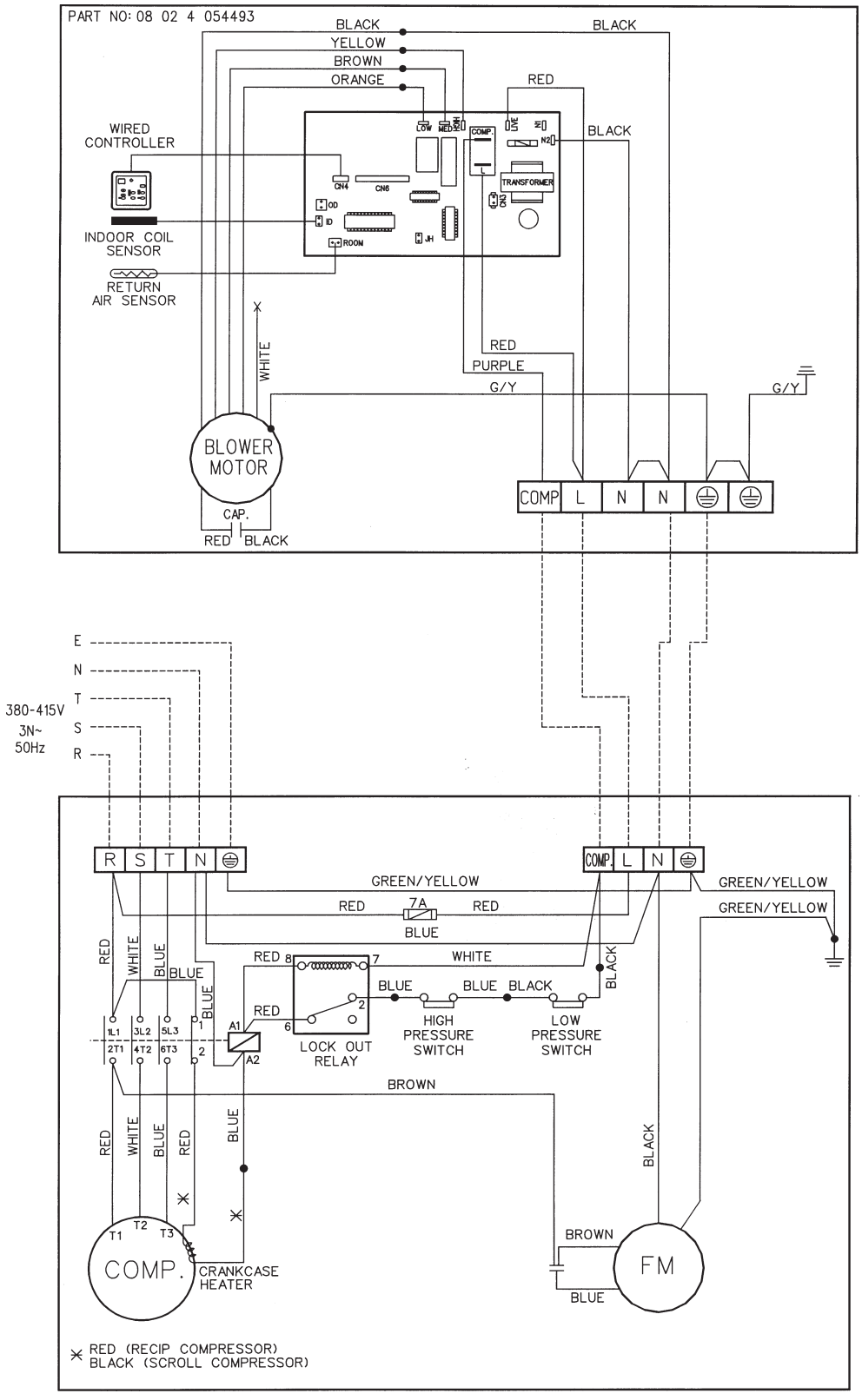
Outdoor Unit
Model: MVCU025A



Cooling Only

Indoor Unit
Model: MCC030C

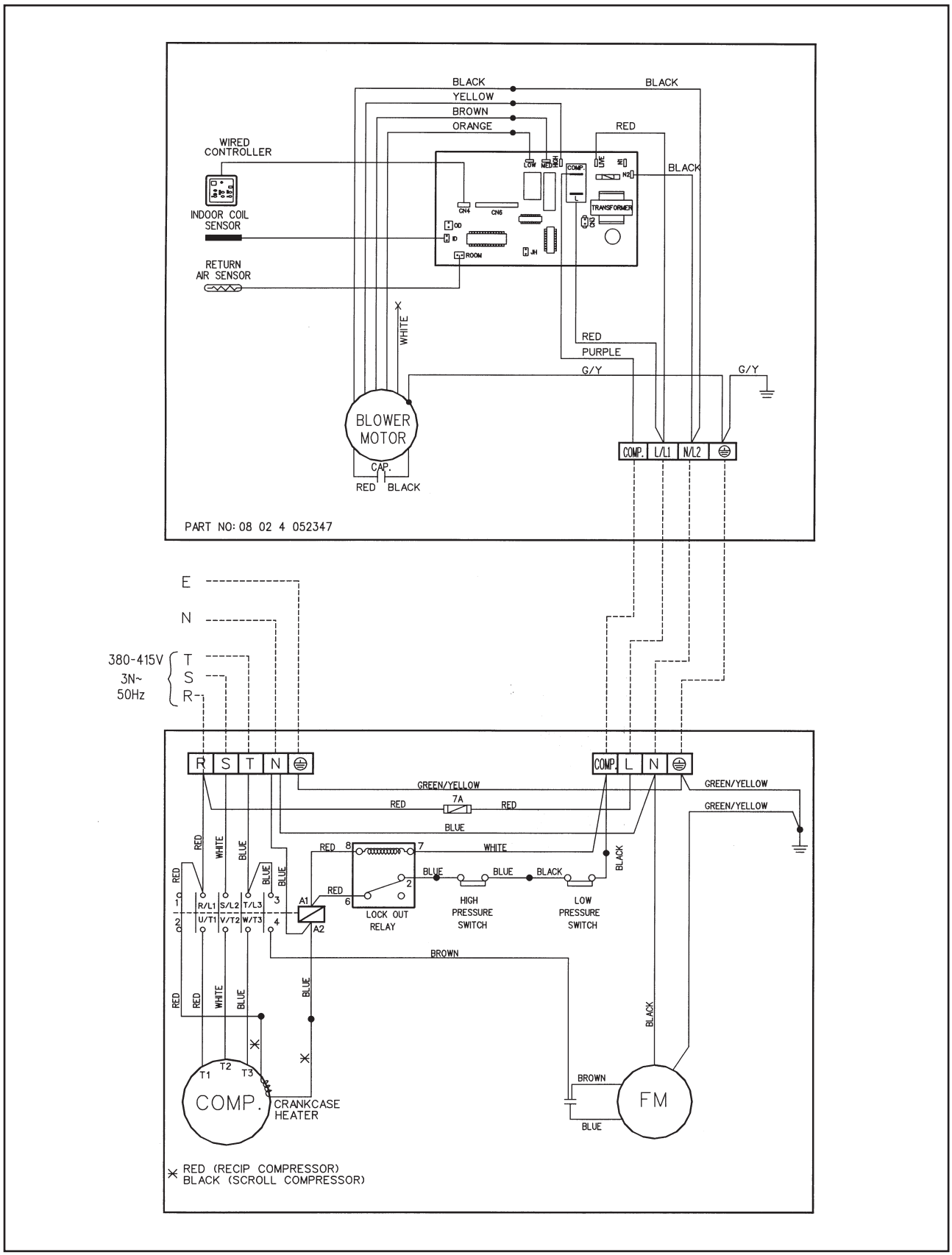
Outdoor Unit
Model: MVCU030A



Cooling Only

Indoor Unit
Model: MCC040C

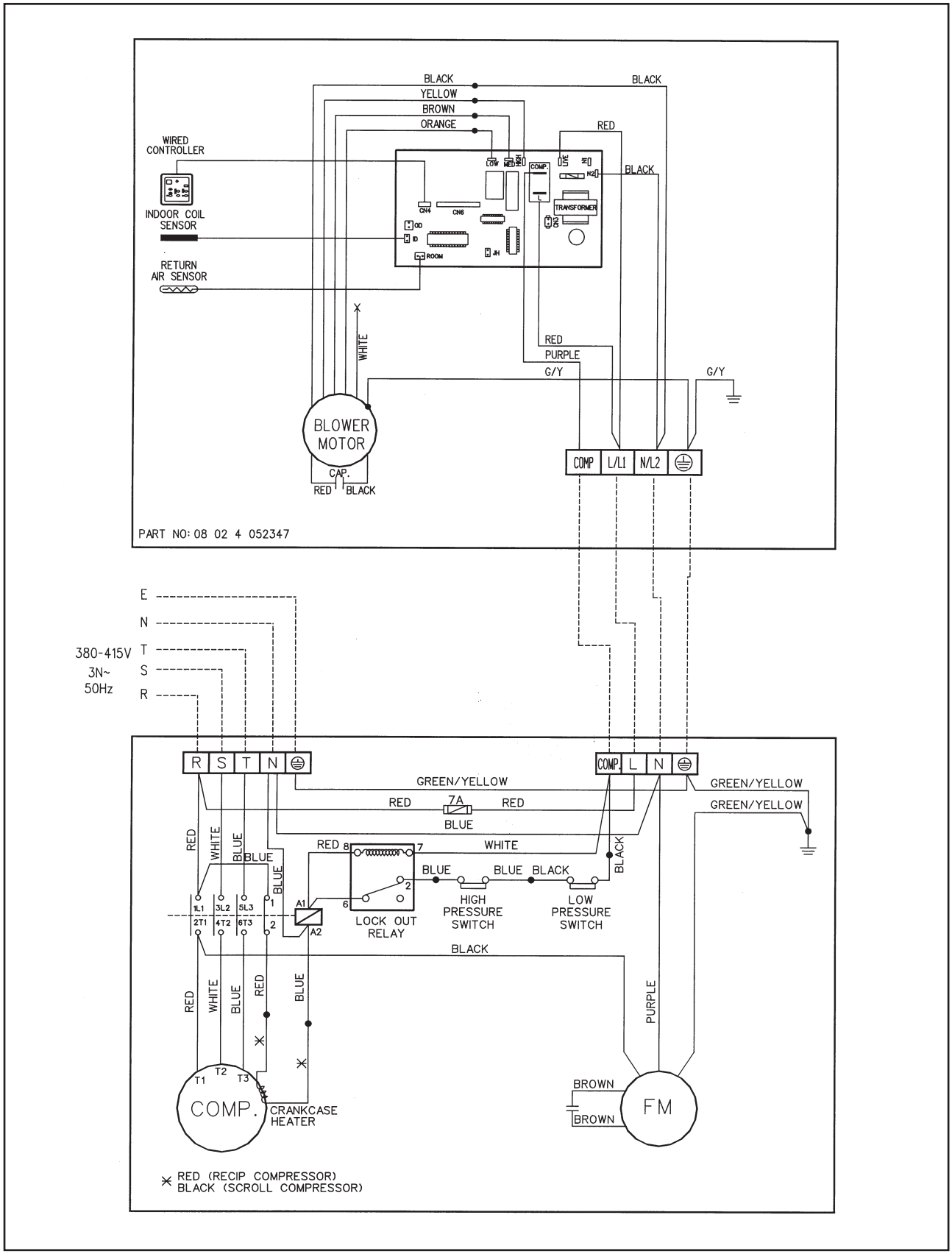
Outdoor Unit
Model: MVCU035A



Cooling Only

Indoor Unit
Model: MCC040C
MCC050C

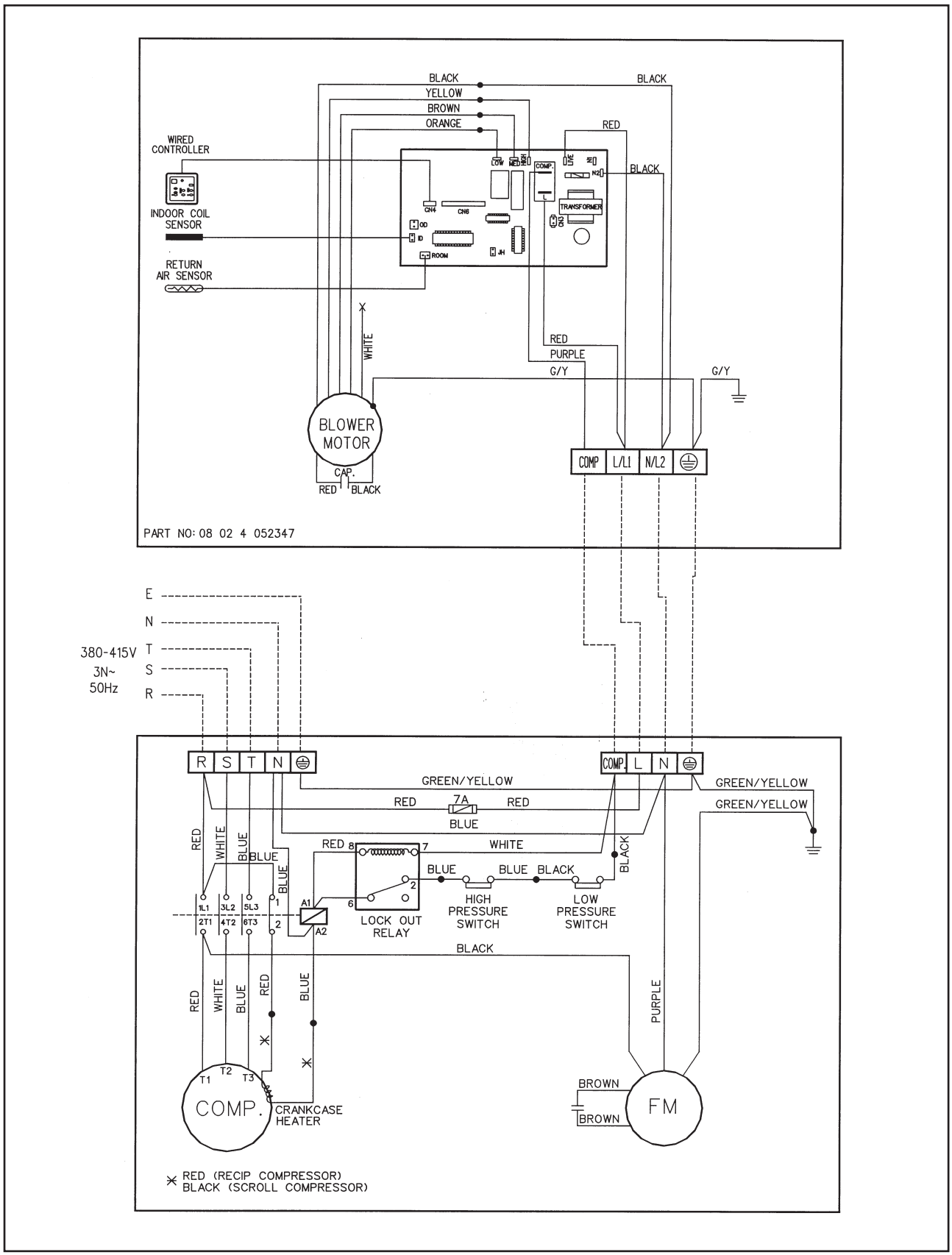
Outdoor Unit
Model: MVCU040A
MVCU050A



Cooling Only

Indoor Unit
Model: MCC060C

Outdoor Unit
Model: MVCU060A



Service and Maintenance

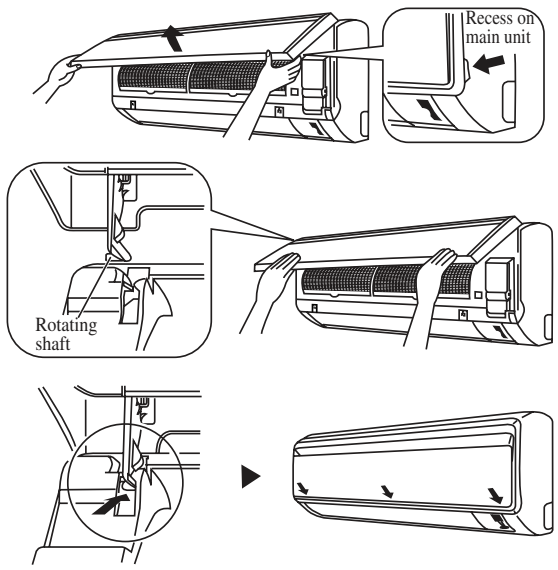
⚠ Warning

- Disconnect from main supply before servicing the air conditioner.
- The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

Components	Maintenance Procedures	Period
Air Filter (Indoor Unit)	1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Note: Never use gasoline, volatile substances or chemicals to clean the filter.	At least once every 2 weeks. More frequently if necessary.
Indoor Unit	1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution. 2. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit.	At least once every 2 weeks. More frequently if necessary.
Condense Drain Pan & Pipe	1. Check the cleanliness and clean it if necessary. 2. Check the condensate water flow.	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	If necessary.
Indoor / Outdoor Coil	1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flow through the indoor or outdoor.	Every month.
Power Supply	1. Check the running current and voltage for indoor and outdoor unit. 2. Check the electrical wiring and tighten the wire onto the terminal block if necessary.	Every 2 months. Every year.
Compressor	No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joint and fitting.	Every 6 months.

Indoor Models

1. Open the front panel
   - Hold the panel at the recesses on the main unit (2 recesses on right and left sides) and lift it until it stops.
2. Remove the front panel
   - While lifting the front panel further, slide it to the right and pull it to the front side. The left rotating shaft is detached. Slide the right rotating shaft to the left and pull it to the front side to remove it.
3. Attach the front panel
   - Align the right and left rotating shafts of the front panel with the grooves and push them all the way in.
   - Gently close the front panel. (Push both ends and the center on the front panel.)



⚠ Caution

- Don't touch the metal parts of the indoor unit. It may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent from it falling.
- For cleansing, do no use hot water above 40°C, benzene, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

Pre Start Up Maintenance
(After Extended Shutdown)

- Inspect thoroughly and clean indoor and outdoor units.
- Clean or replace air filters.
- Clean condensates drain line.
- Clean clogged indoor and outdoor coils.
- Check fan imbalance before operation.
- Tighten all wiring connections and panels.
- Check for refrigerant leakage.

⚠ Caution

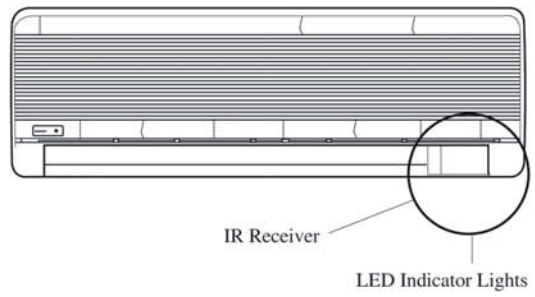
- Do not charge OXYGEN, ACETYLENE OR OTHER FLAMMABLE and poisonous gases into the unit when performing a leakage test or an airtight test. These gases could cause severe explosion and damage if exposed to high temperature and pressure.
- It is recommended that only nitrogen or refrigerant be charged when performing the leakage or airtight test.

Troubleshooting

Error Code

MWM030F

Cooling : LED Indicator Light Display



Power ON Timer

Dry mode Sleep mode

LED Indicator Lights : Normal Operation and Fault Conditions for Cooling Unit

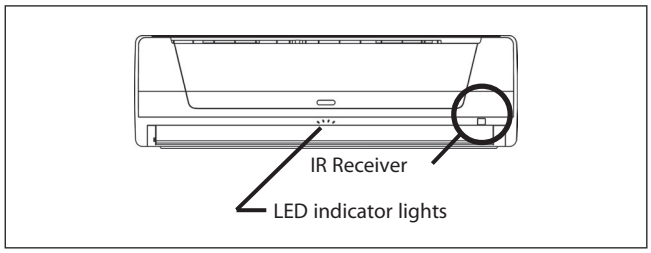
Power	Dry	Timer	Sleep	Operation / Fault Indication	Action
○		○		Timer on	-
○			○	Sleep mode on	-
○	○			Dry mode on	-
◑ Continuously	○/●			Frost prevention	Clean the filter and switch to high fan
◑ once every 2 sec.				Room air sensor contact loose / short	Call your dealer
◑◑ twice every 2 sec.				Indoor coil sensor contact loose / short	Call your dealer
◑◑◑ 3 times every 2 sec.				Sensor contact problem, compressor overload protection trip or gas leak	Call your dealer

○ - ON ○/● - ON or OFF ◑ - Blinking

MWM-G Series

IR Signal Receiver

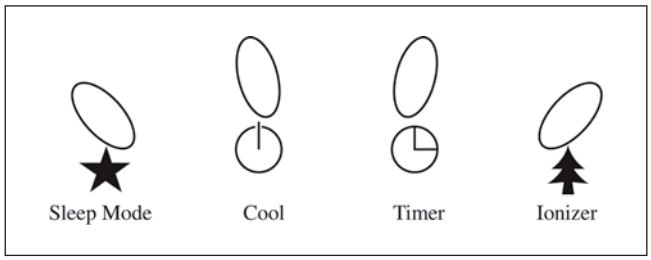
When there is infrared remote control operating signal, the signal receiver on indoor unit will made a (beep) for signal acceptance confirmation.



Cooling unit

The table below shows the LED indicator light for air conditioner unit under normal operation and fault condition. The LED indicator lights are located at the middle of the air conditioner unit.

Cooling : LED Indicator Light Display



LED Indicator Lights : Normal Operation and Fault Conditions for Cooling Unit

★	⏻ COOL/HEAT (GREEN/RED)	🕒	⏫	Normal Operation / Fault Indication	Action
○/●	○ Green		○/●	Cool mode	-
	○	○		Timer on	-
○	○			Sleep mode on	-
	○		○	Ionizer on	-
	○		○/●	Fan mode on	-
	○		○/●	Dry mode on	
	◑ 1 time			Room air sensor contact Loose / Short	Call your dealer
	◑ 3 times			Outdoor coil sensor open	Call your dealer
◑	◑			Indoor coil sensor open	Call your dealer
		◑ 1 time		Compressor overload / Indoor coil sensor short / Outdoor coil sensor short	Call your dealer
		◑ 3 times		Gas leak	Call your dealer
○		◑ 5 times		Outdoor coil sensor exist (MS mode)	Call your dealer
		◑ 6 times		Hardware error (tact switch pin short)	Call your dealer

○ - ON ○/● - ON or OFF ◑ - Blinking

MCM-D Series

Operating State and Fault Table

Wireless Remote Control
Cooling : LED Indicator Light Display

LED Indicator Lights : Normal Operation and Fault Conditions for Cooling Unit

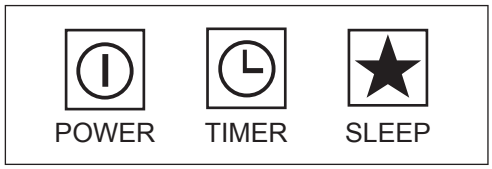
COOL	DRY	FAN	Operation / Fault Indication
○			Cool mode
○	○		Dry mode
		○	Fan mode
◑			Compressor Overload
	◑		Outdoor Coil Sensor Contact Loose / Short
		◑	Room Sensor Contact Loose / Short

○ - ON ○/● - ON or OFF ◑ - Blinking

MCK-A Series

Operating State and Fault Table

Wireless Remote Control
Cooling : LED Indicator Light Display



LED Indicator Lights : Normal Operation and Fault Conditions for Cooling Unit

POWER	TIMER	SLEEP	HEAT	Operation / Fault Indication
○				Cool mode
○	○			Timer on
○		○		Sleep mode on
◑ Once every 3 sec				Compressor Overload
◑ ◑ Twice every 3 sec				Pump Fault
◑ ◑ ◑ 3 times every 3 sec				Gas Leak
◑ ◑ ◑ ◑ 4 times every 3 sec				Room / Indoor / Outdoor Coil / Sensor Contact Loose / Short

○ - ON ○/● - ON or OFF ◑ - Blinking

MCC-C Series

Wired Remoted Control

Error Code at 7 Segment Display	Operation / Faulty Indication
Blink E1	Room sensor contact loose / short
Blink E2	Indoor coil sensor contact loose / short
Blink E3	Outdoor coil sensor contact loose / short
Blink E4	Compressor overload
Blink E5	Gas leak
Blink E6	Pump faulty

Phase Sequencer

The unit with Scroll Compressor can only rotate in one direction. For this reason, a protective device (phase sequencer) is fitted to prevent incorrect wiring of the electrical phases. When the three phases are not connected correctly, the phase sequencer operates, and the unit will not start. This device is located in the control box of the outdoor unit.

LED Indicator Lights : Normal Operation and Fault Conditions for Cooling Unit

	LED_P (Red)	LED_R (Yellow)	LED_S (Yellow)	LED_T (Yellow)
Normal Operation	On	-	-	-
Reverse Phase	Blink	Blink	Blink	Blink
S & T Phase Missing	Blink	-	Blink	Blink
T Phase Missing	Blink	-	-	Blink
S Phase Missing	Blink	-	Blink	-
R Phase Missing	-	-	-	-
Overload	Blink	-	-	-
Sensor Missing	Blink	On	On	On

Note: 1. "-" means LED off.
2. When R phase missing, no LED or buzzer will indicate the error, but relay 71 (Common) and 81 (NO) will cut off.
3. The unit will check the discharge sensor availability only during power up.
*4. All errors can only recover through **manually reset**.*

Fault Condition

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.
The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	• The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	• Protection against frequent starting. • Wait for 3 or 4 minutes for the compressor to start operating by it self.
3	The airflow is too slow or room cannot be cooled sufficiently.	• The air filter is dirty. • The doors and windows are opened. • The air suction and discharge of both indoor and outdoor units are clogged or blocked. • The regulated temperature or temperature setting is not low enough.
4	Discharge airflow has bad odor.	• Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. • Contact your nearest dealer.
5	Condensation on the front air grille of the indoor unit.	• This is caused by air humidity after an extended period of operation. • The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.
6	Water flowing out from the air conditioner.	• Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
7	Hissing airflow sound from the air conditioner unit during operation.	• Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	• The batteries are discharged. • The batteries are not correctly inserted. • The assembly is not good.
9	Compressor operates continuously.	• Dirty air filter. Clean the air filter. • Temperature setting too low (cooling). Use higher temperature setting. • Temperature setting too high (heating), Use lower temperature setting.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	• Temperature setting too high (cooling). Use lower temperature setting. • Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	• Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

Diagnostic Guidelines

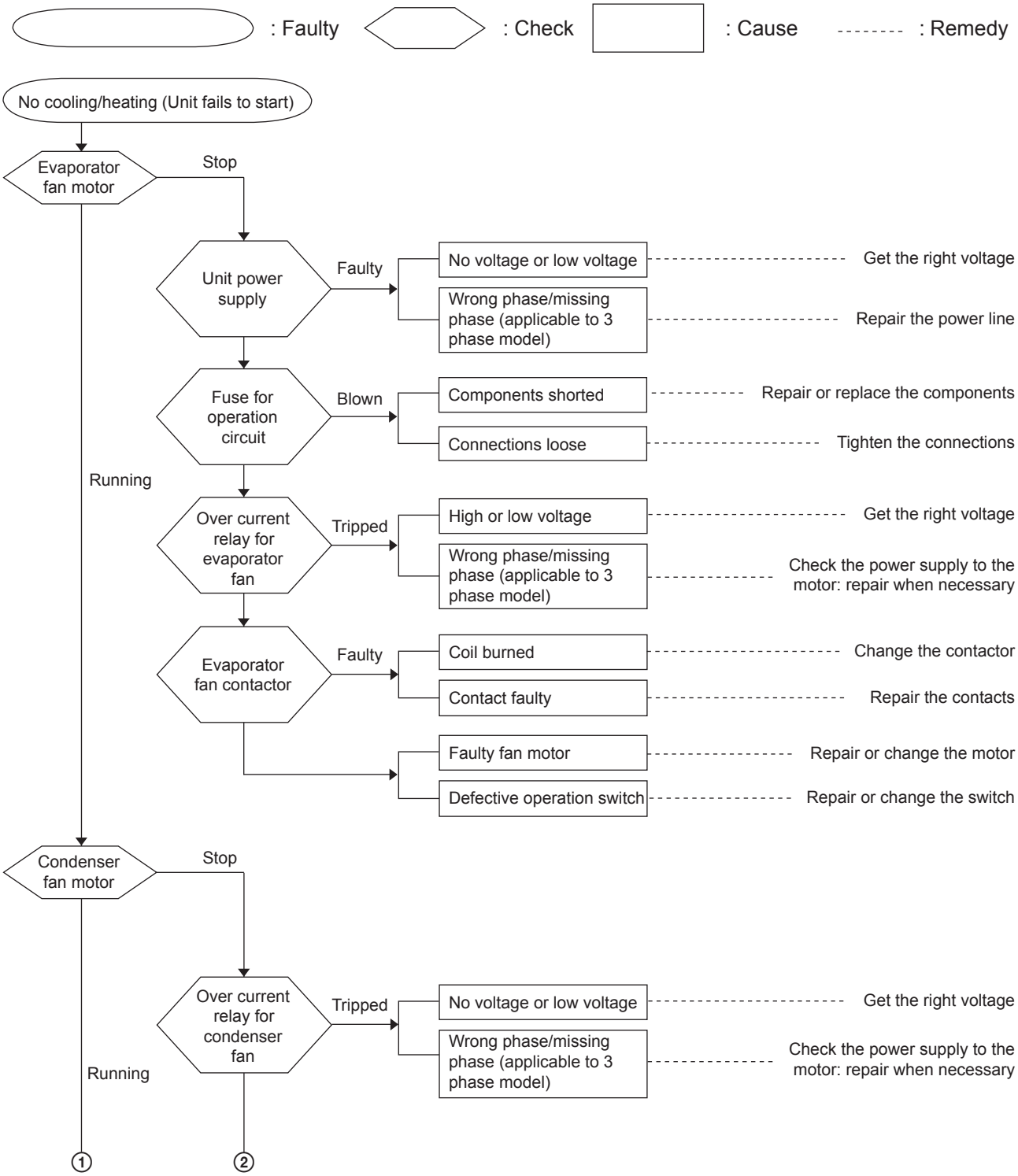
By means of pressure readings:

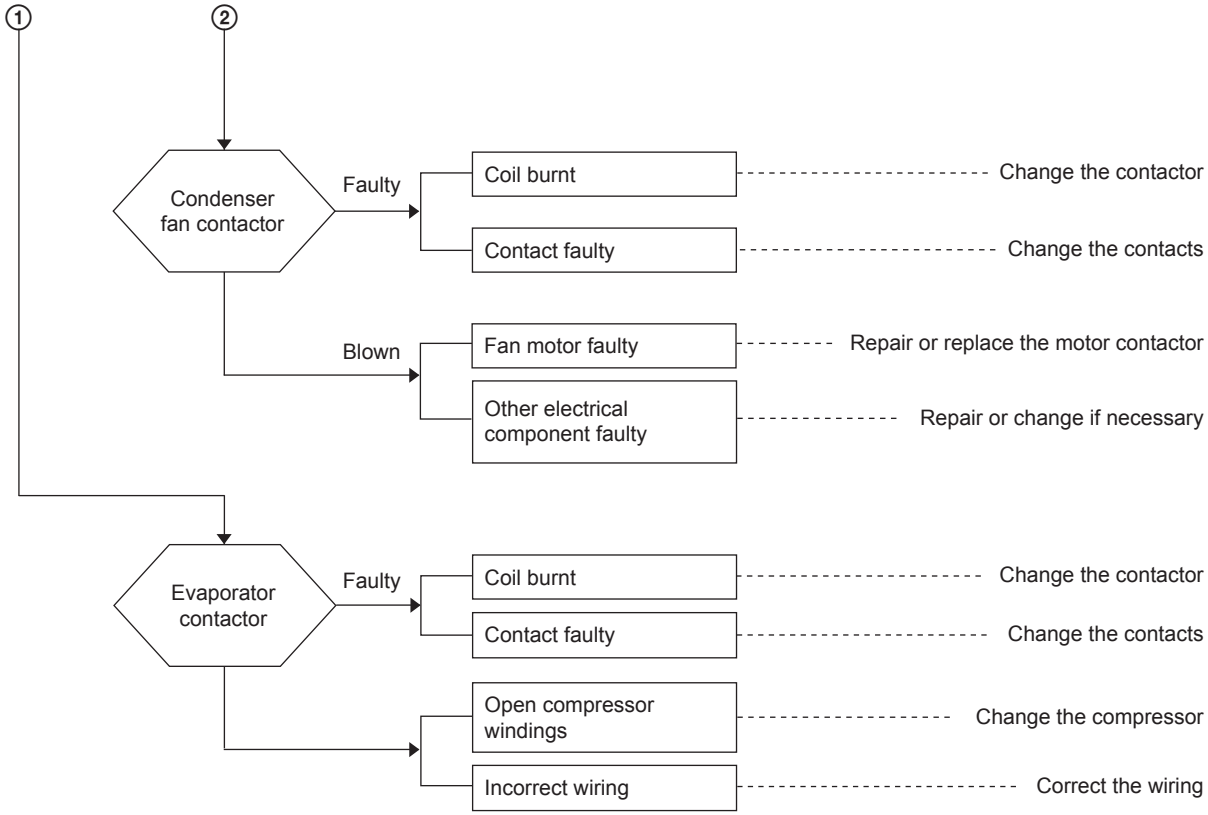
Data / Circuit	Pressure					Probable cause
	Too low	A little low	Normal	A little high	Too high	
High side **Low side**					• •	1. Overcharged with refrigerant. 2. Non-condensable gases in refrigerant circuit (e.g. air) 3. Obstructed air-intake / discharge. 4. Hot air short circuiting in outdoor unit.
High side **Low side**	•				•	1. Poor compression /no compression (compressor defective) 2. Reversing valve leaking.
High side **Low side**	•	•				1. Undercharged with refrigerant. 2. Refrigerant leakage. 3. Air filter clogged / dirty (indoor unit). 4. Indoor fan locked / seized. 5. Defective defrost control, outdoor coil freeze up (heating). 6. Outdoor fan locked / seized (heating).
High side **Low side**				•	•	1. Outdoor fan blocked (cooling). 2. Outdoor coil dirty (cooling). 3. Indoor fan locked / seized (heating). 4. Indoor air filter clogged / dirty (heating). 5. Non-condensable gases in refrigerant circuit (e.g. air)
High side **Low side**				•	•	1. Air intake temperature of indoor unit too high.

By means of diagnostic flow chart:

Generally, there are two kinds of problems, i.e. starting failure and insufficient cooling/heating. “Starting failure” is caused by electrical defect while improper application or defects in refrigerant circuit causes “Insufficient cooling / heating”.

i) Diagnosis of Electric circuit

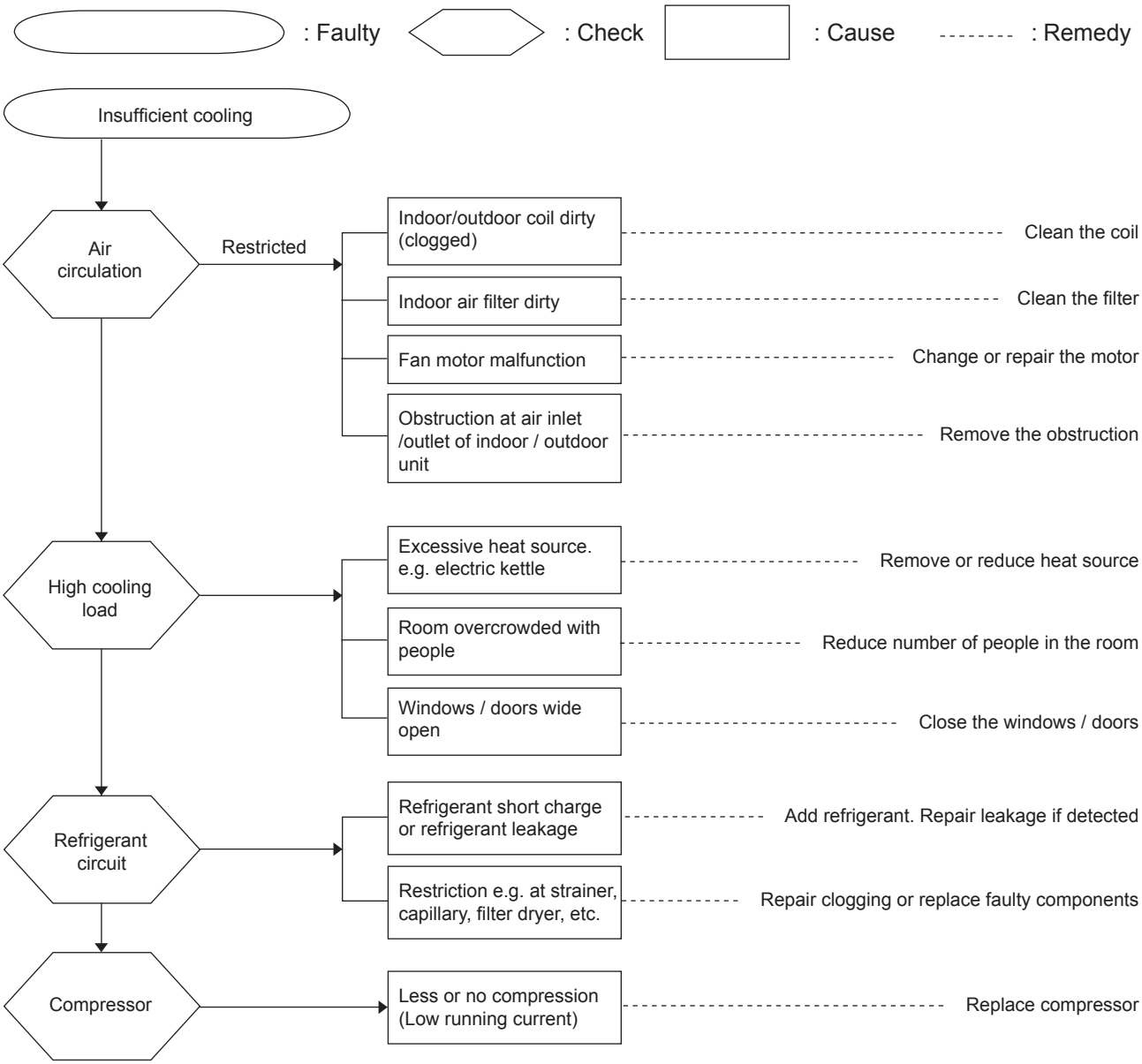




The most common causes of air conditioner failure to “start” are :
a) Voltage not within ±10% of rated voltage.
b) Power supply interrupted.
c) Improper control settings.
d) Air conditioner is disconnected from main power source.
e) Fuse blown or circuit breaker off.

ii) Diagnosis of Refrigerant Circuit / Application

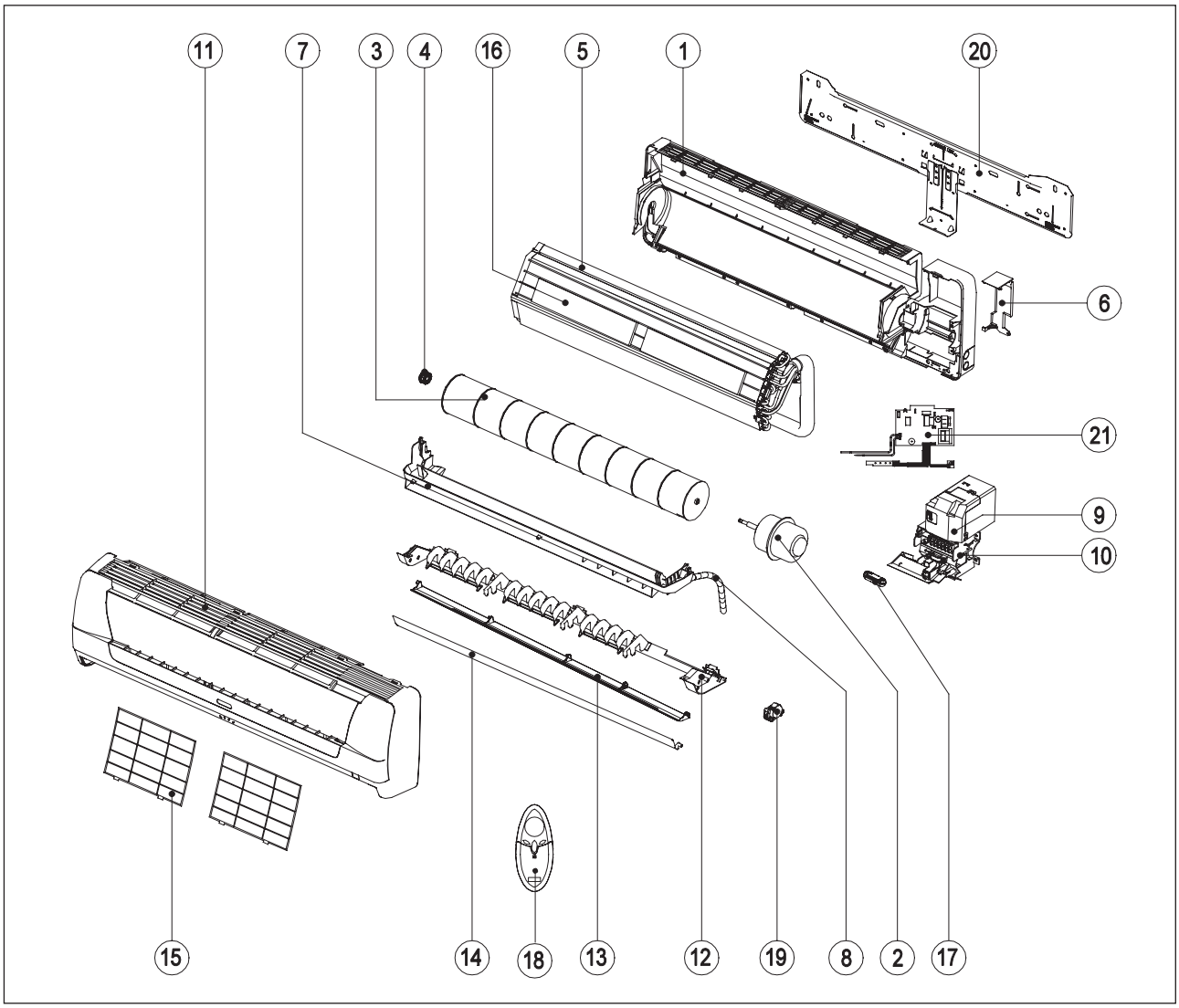
There might be some causes where the unit starts running but does not perform satisfactorily, i.e. insufficient cooling. Judgement could be made by measuring temperature difference of indoor unit's intake and discharge air as well as running current.


: Faulty
: Check
: Cause
: Remedy
Insufficient cooling
Air circulation
Restricted
Indoor/outdoor coil dirty (clogged)
Clean the coil
Indoor air filter dirty
Clean the filter
Fan motor malfunction
Change or repair the motor
Obstruction at air inlet /outlet of indoor / outdoor unit
Remove the obstruction
High cooling load
Excessive heat source. e.g. electric kettle
Remove or reduce heat source
Room overcrowded with people
Reduce number of people in the room
Windows / doors wide open
Close the windows / doors
Refrigerant circuit
Refrigerant short charge or refrigerant leakage
Add refrigerant. Repair leakage if detected
Restriction e.g. at strainer, capillary, filter dryer, etc.
Repair clogging or replace faulty components
Compressor
Less or no compression (Low running current)
Replace compressor

Satisfactory operation with temperature difference of air intake & discharge of indoor unit 8°C to 13°C. *
(* value is for reference only)

Exploded View and Part List

INDOOR UNIT
MODEL: MWM025G

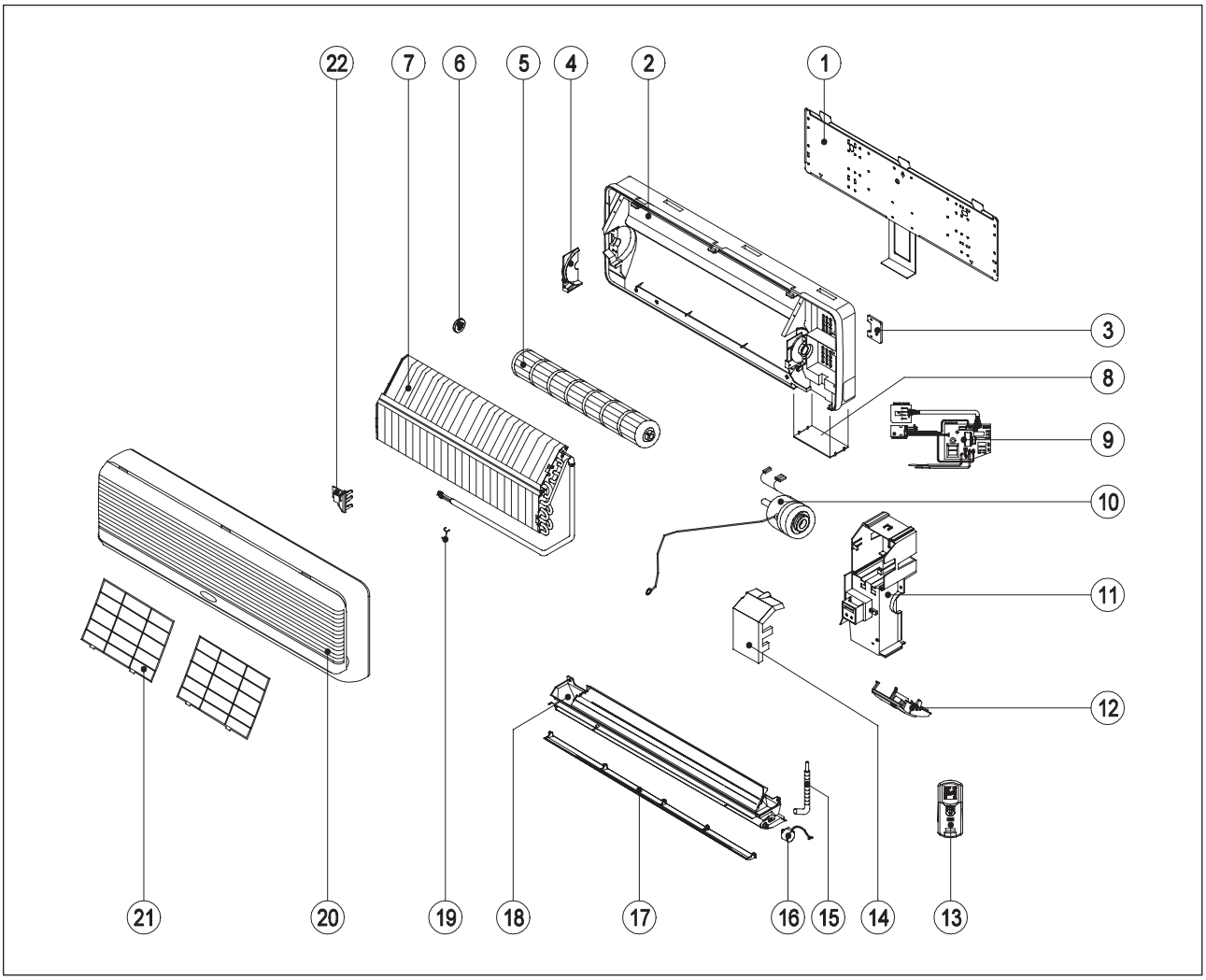


No	Description	Part Number
1	Assy. Chassis	R50124068170
2	Fan Motor	R03034074204
3	Cross Flow Fan	R03029209158
4	Fan Bush	R11014023775
5	Assy. Indoor Coil	R50024072204
6	Piping Clamp	R12014071297
7	Assy. Drain Pan	R50124068171
8	Drain Hose	R10024015319
9	Assy. Control Box	R50044071955
10	Assy. Control Box Cover	R50124071418
11	Assy. Front Cover	R50124071424
12	Assy. Air Discharge Housing	R50124071426

No	Description	Part Number
13	Top Louver	R12014066820
14	Bottom Louver	R12014066821
15	Filter	R12014066832
16	Nanosilver Filter	R12014080142
	Nanovis Filter	R12014080144
17	Assy. Negative Ionizer	R04239022932
18	Handset, Wireless G17	R04084100950
19	Air Swing Motor	R03039022933
20	Assy. Mounting Plate	R50014036133
21	Control Module	R04084071971
Parts Not in Diagram		
A	Rivet (SR-5057) - White	R07074049285

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

INDOOR UNIT
MODEL: MWM030F

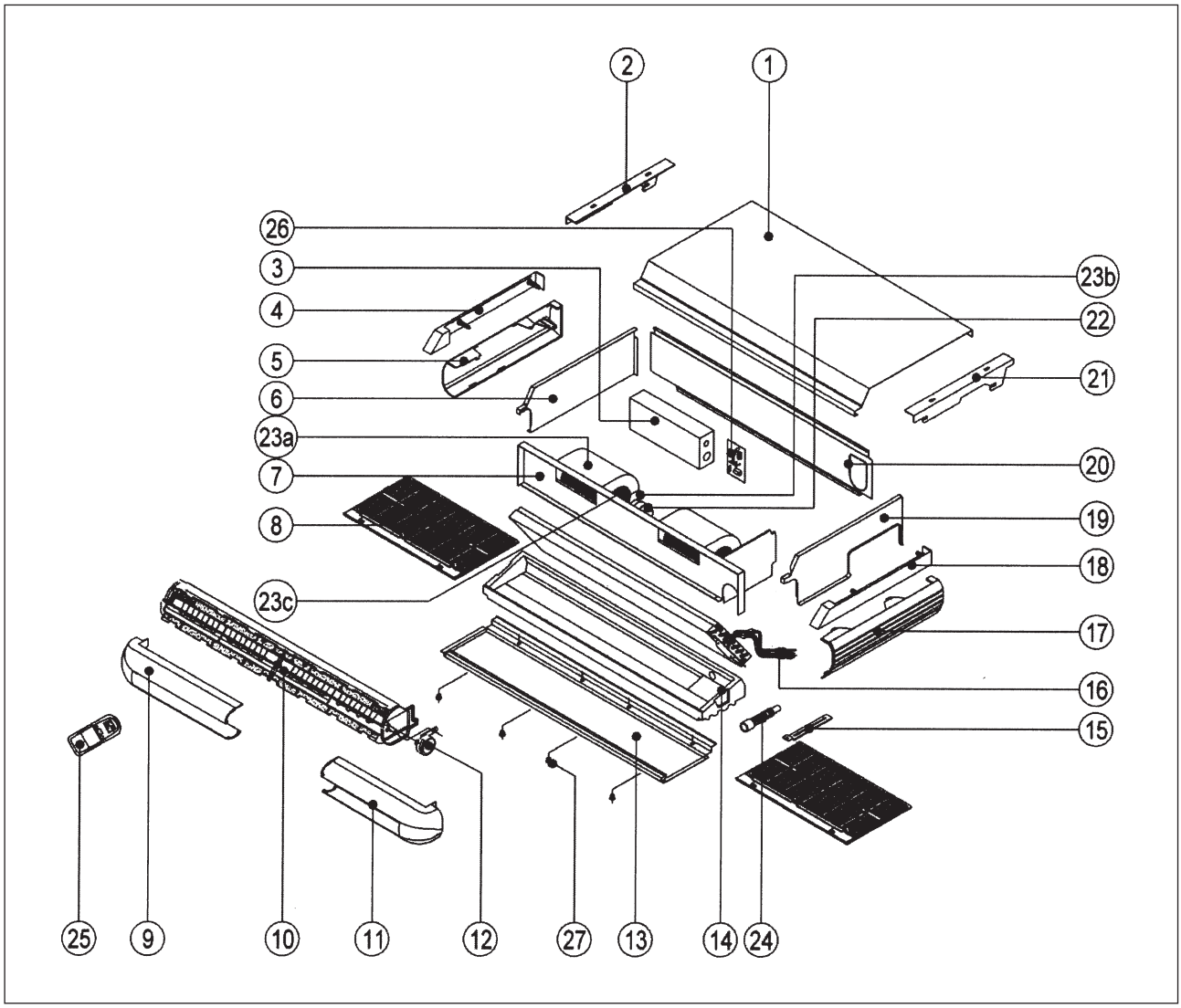


No	Description	Part Number
1	Assy. Installation Bracket	R50014050721
2	Assy. Chassis	R50124050703
3	Piping Clamp	R07014024546
4	Fan Bush Bracket	R12014050709
5	Cross Flow Fan	R03029013842
6	Fan Bush	R11019013841
7	Assy. Coil	R50024050710
8	Service Panel	R12014050685
9	Control Module	R04084090222
10	Fan Motor	R03034052105
11	Assy. Control Box	R50044090264
12	LED Light Bracket	R12014050679

No	Description	Part Number
13	Handset, Wireless G17	R04084103448
14	Control Box Cover	R12014050681
15	Drain Hose	R10024015319
16	Air Swing Motor	R03039007088
17	Air Louver	R12014050717
18	Assy. Air Discharge Housing	R50124050712
19	Coil Sensor Clip	R07054021183
20	Assy. Front Cover	R50124050723
21	Saranet Filter	R12014050726
22	Thermistor Holder	R12014000432
Parts Not in Diagram		
A	Assy. Orifice Pipe	R50024063203

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MCM025D

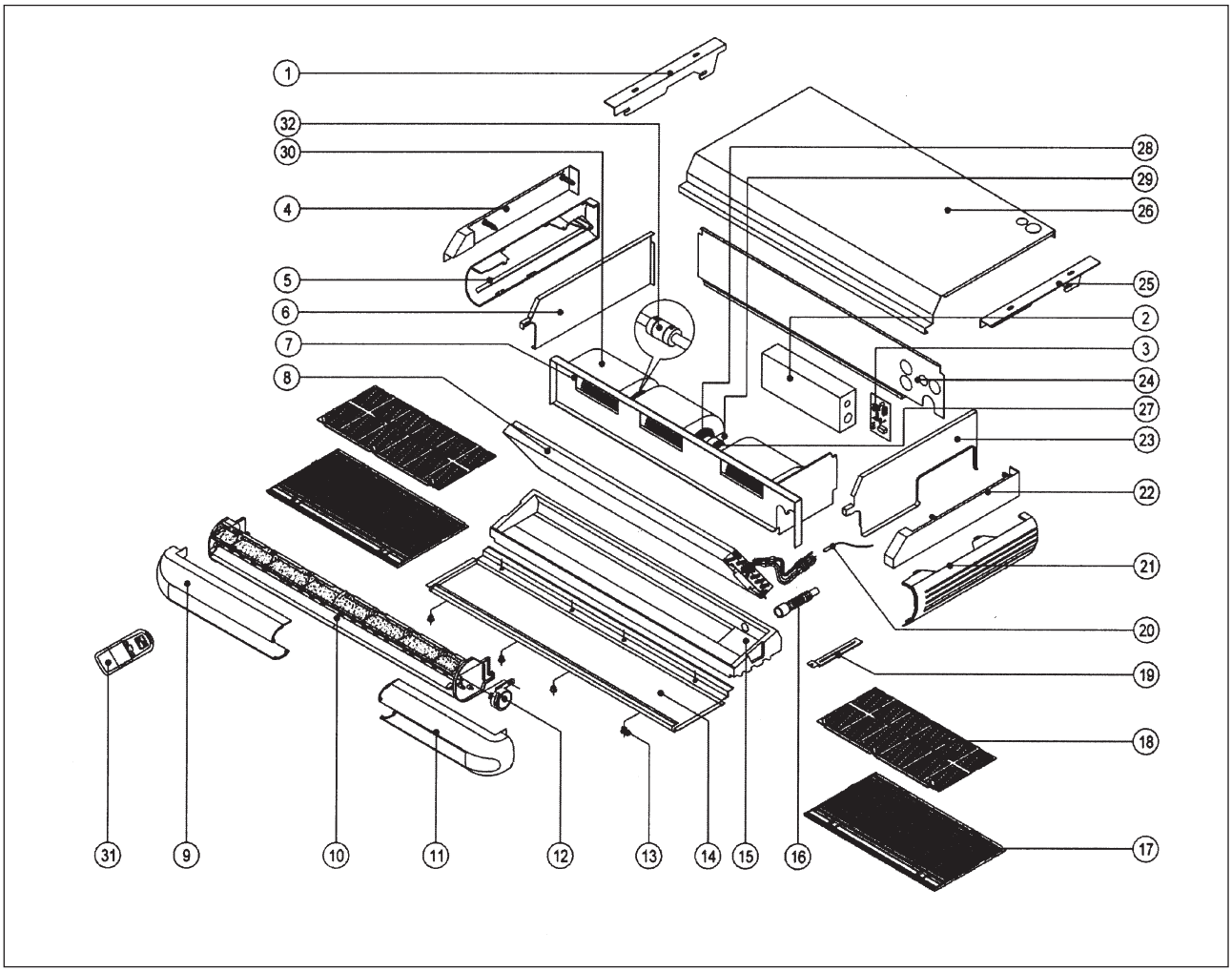


No	Description	Part Number
1	Top Panel	R01014022475
2	Hanger Bracket (Left)	R01014032844
3	Control Box	R01014022491
4	Close Up, Side Panel (Left)	R12013022636
5	Side Frame (Left)	R12013022501
6	Assy. Coil Holder (Left)	R01014022480
7	Fan Deck	R50013026114
8	Assy. Air Intake Grille	R50124026140
9	Front Frame (Left)	R12013022443
10	Assy. Louver	R50129003072
11	Front Frame (Right)	R12013022444
12	Assy. Air Swing Motor	R50034026127
13	Bottom Panel	R01015033342
14	Assy. Drain Pan	R50124023274
15	Centre Support Bracket	R01014022484

No	Description	Part Number
16	Assy. Coil	R50024025828
17	Side Frame (Right)	R12013022502
18	Close Up, Side Panel (Right)	R12013022637
19	Assy. Coil Holder (Right)	R01014022481
20	Back Panel	R01013022492
21	Hanger Bracket (Right)	R01014032843
22	Fan Motor	R03039012875
23a	Blower Housing, Top	R03094026108
23b	Blower Housing, Bottom	R03094021607
23c	Blower Wheel	R03024004754
24	Assy. Drain Hose	R50124025113
25	Handset, Wireless G17	R04084103448
26	Control Module	R04089027278

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MCM030D

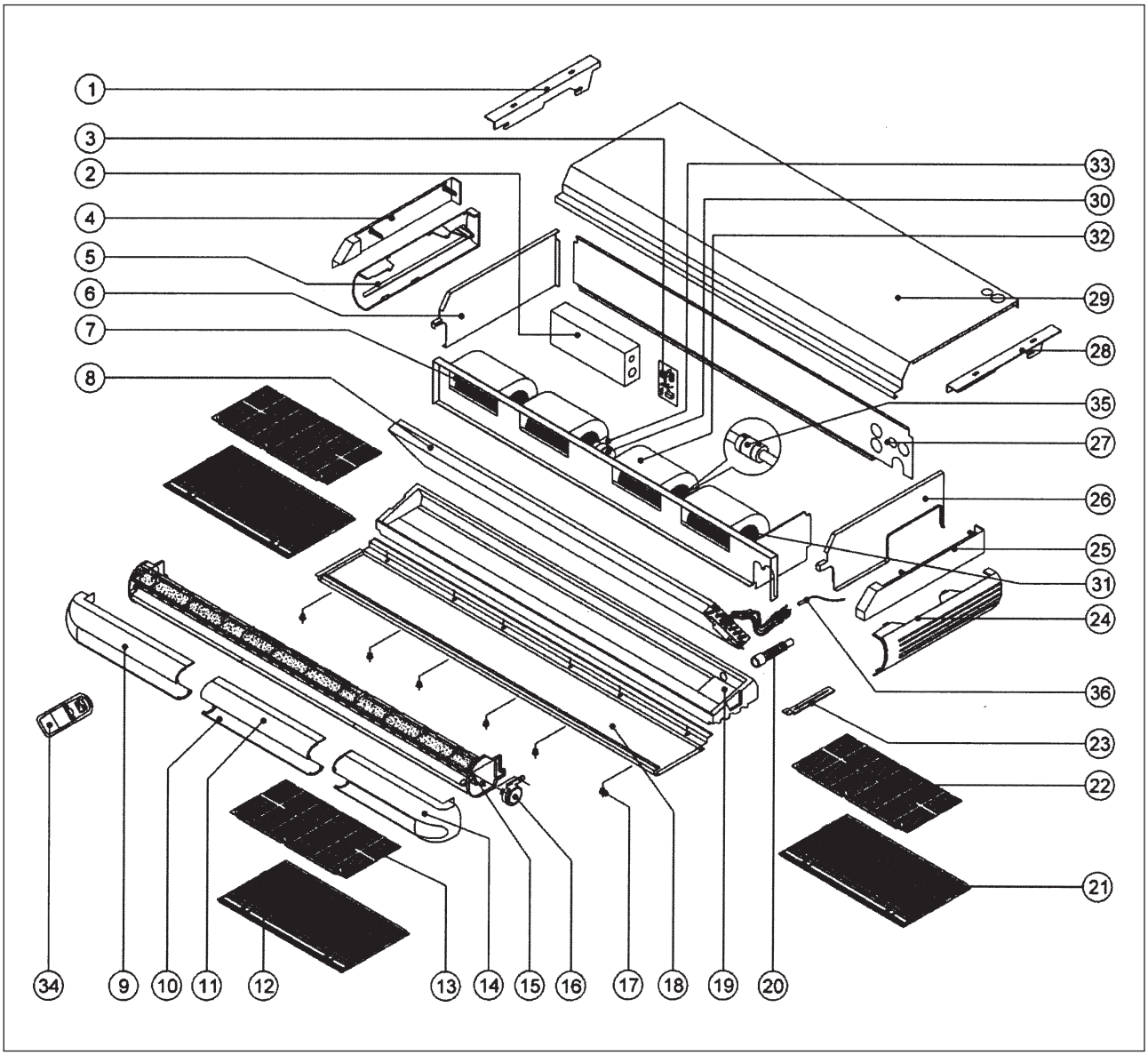


No	Description	Part Number
1	Hanger Bracket (Left)	R01014032844
2	Control Box Cover	R01014022491
3	Control Module	R04089027278
4	Close Up (Left)	R12013024883
5	Side Frame (Left)	R12013022501
6	Assy. Coil Holder (Left)	R50064028307
7	Fan Deck	R50014028312
8	Assy. Coil	R50024031216
9	Front Frame (Left)	R12013022443
10	Assy. Louver	R50129003072
11	Front Frame (Right)	R12013022444
12	Assy. Air Swing Motor	R50034026127
13	Air Intake Grille Frame Holder	R12014022098
14	Bottom Panel	R01015033342
15	Assy. Drain Pan	R50124023274
16	Assy. Drain Hose	R50124025113

No	Description	Part Number
17	Grille, Air Intake	R50124032385
18	Assy. Filter Frame Left/ Right	R50124022130
19	Bracket Centre Support	R01014022484
20	Thermister	R04094030528
21	Side Frame (Right)	R12013022502
22	Close Up (Right)	R12013024884
23	Assy. Coil Holder (Right)	R50064028310
24	Back Panel	R01013024870
25	Hanger Bracket (Right)	R01014032843
26	Top Panel	R50014028305
27	Fan Motor	R03039012877
28	Blower Wheel	R03024004754
29	Housing Blower, Bottom	R03090030300
30	Housing Blower, Top	R03094026108
31	Handset, Wireless G17	R04084103448
32	Rubber Coupling	R11054025589

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MCM040/050D



Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

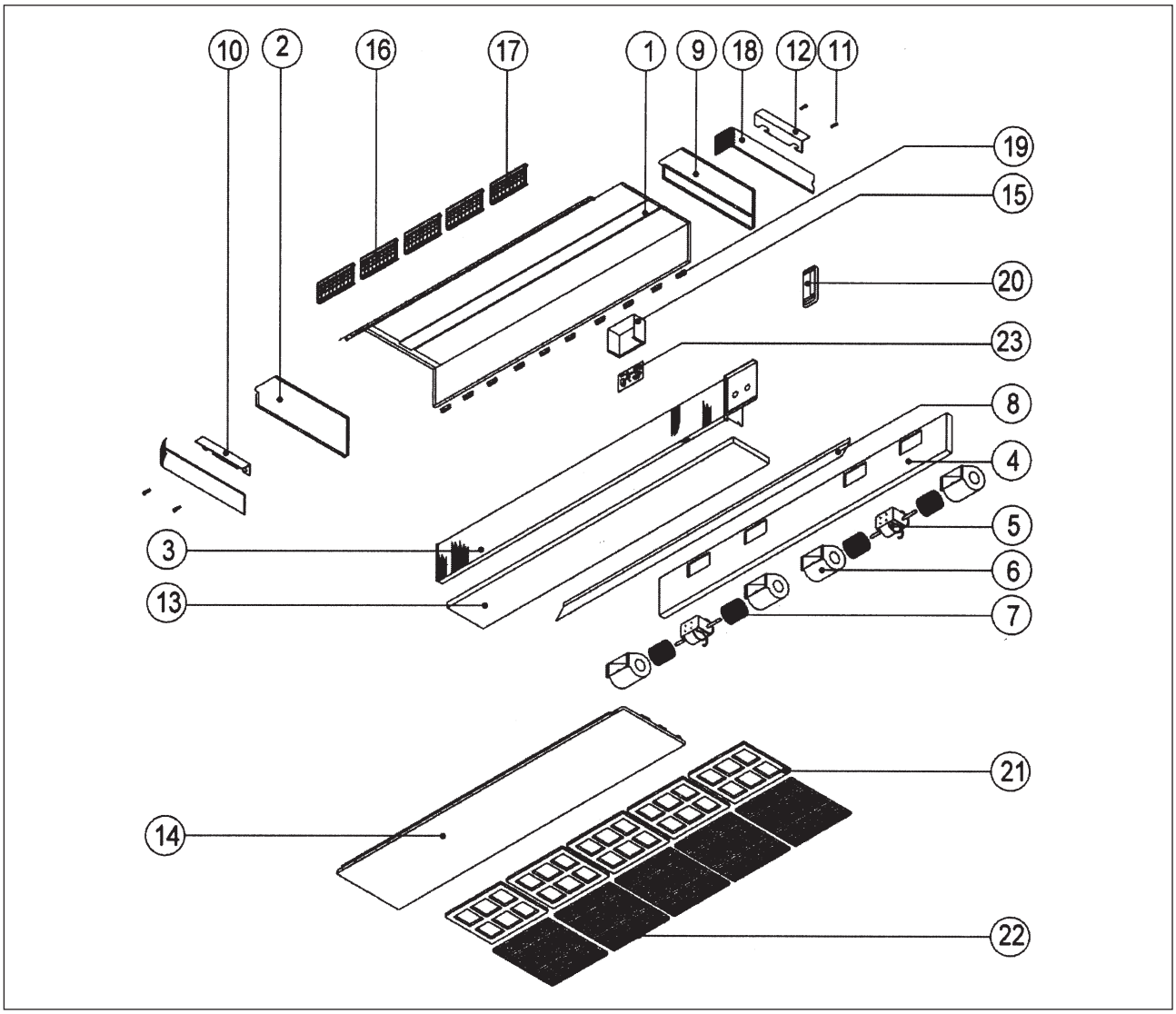
MODEL: MCM040/050D

No	Description	Part Number
1	Hanger Bracket (Left)	R01014032844
2	Control Box Cover	R01014022491
3	Control Module	R04089027279
4	Close Up (Left)	R12013024883
5	Side Frame (Left)	R12013022501
6	Assy. Coil Holder (Left)	R50064028307
7	Fan Deck	R50013030299
8	Assy. Coil	
	MCM040D	R50024064347
	MCM050D	R50024064348
9	Front Frame (Left)	R12013022443
10	Frame Bottom Centre	R12013022443
11	Front Top Centre	R12014028976
12	Air Intake Grille Frame Center Assy.	R50124029066
13	Air Intake Grille Frame Center Assy.	R50124029066
14	Front Frame (Right)	R12013022444
15	Assy. Louver Bottom	R50129003073
16	Assy. Air Swing Motor	R50034026127
17	Air Intake Grille Frame Holder Assy.	R50124026115

No	Description	Part Number
18	Bottom Panel	R01015024889
19	Assy. Drain Pan	R50124029045
20	Assy. Drain Hose	R50124025113
21	Assy. Air Intake Grille	R50124026140
22	Assy. Air Intake Grille	R50124026140
23	Bracket Centre Support	R01014022484
24	Side Frame (Right)	R12013022502
25	Close Up (Right)	R12013024884
26	Assy. Coil Holder (Right)	R50064028310
27	Back Panel	R01013030263
28	Hanger Bracket (Right)	R01014032843
29	Top Panel	R50014030260
30	Fan Motor	
	MCM040D	R03039013481
	MCM050D	R03039012879
31	Blower Wheel	R03024004754
32	Housing Blower, Bottom	R03090030300
33	Housing Blower, Top	R03094026108
34	Handset, Wireless G17	R04084103448
35	Rubber Coupling	R11054025589
36	Thermister	R04094030528

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MCM062C

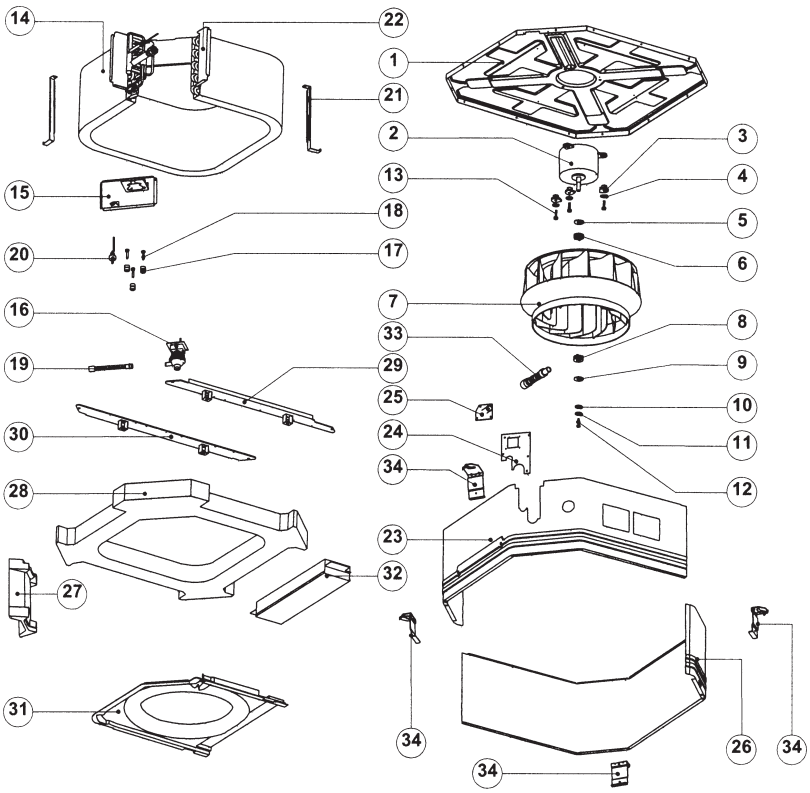


No	Description	Part Number
1	Top Back Panel	R50015039175
2	Coil Holder (Left)	R01014037090
3	Assy. Coil	R50024039514
4	Fan Deck	R50014041231
5	Fan Motor	R03039004898
6	Blower Housing & Wheel (Right)	R50039005355
7	Blower Housing & Wheel (Left)	R50039005356
8	Bracket, Fan Deck	R01014002460
9	Coil Holder (Right)	R01014037091
10	Hanger Bracket (Left)	R01014002497
11	-	
12	Hanger Bracket (Right)	R01019001246

No	Description	Part Number
13	Assy. Drain Pan	R50019010139
14	Bottom Panel	R01015017998
15	Control Box	R01014021961
16	Front Frame	R12014053120
17	Front Frame (With LED Indicators)	R12014053119
18	Side Panel	R50124054669
19	Hook	R12014002437
20	Handset, Wireless G17	R04084103456
21	Air Intake Grille C/W Filter	R50129001080
22	Air Intake Grille C/W Filter	R50129001234
23	Control Module	R04089027300
Parts Not in Diagram		
A	Assy. IR/LED	R50049011842

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MCK025/030/040/050A



Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

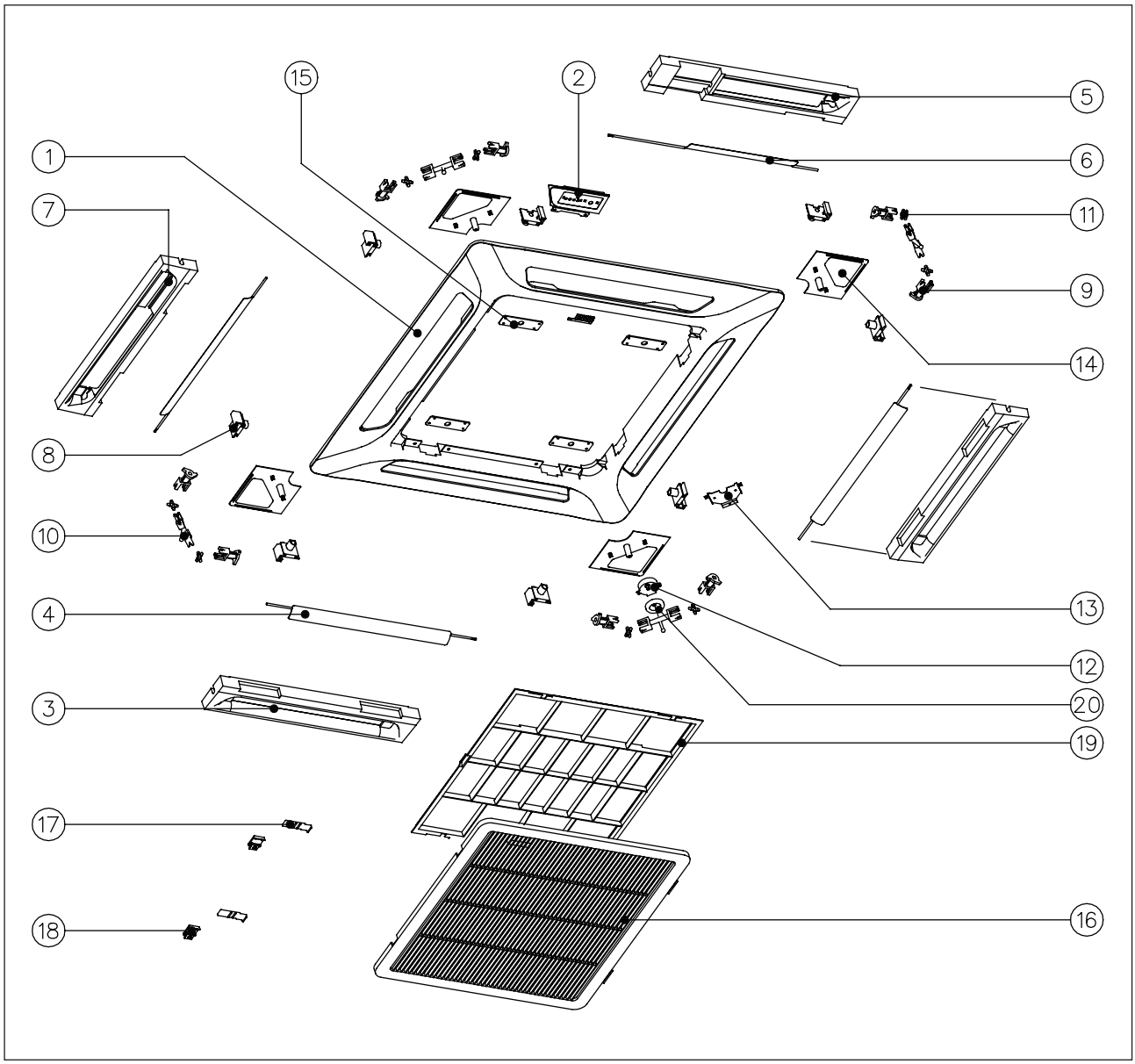
MODEL: MCK025/030/040/050A

No	Description	Part Number
1	Base Pan	R50013028745
2	Fan Motor	
	MCK025A	R03039001734
	MCK030A	R03039001612
	MCK040A	R03039006056
	MCK050A	R03039006057
3	Fan Bush	R11014026620
4	Plain Washer	R07044003768
5	Fan Motor Washer	R01024031691
6	Bottom Coupling	R11054026619
7	Turbo Fan	R03029001613
8	Top Coupling	R11054026610
9	Flat Washer	R07044003872
10	Plain Washer	R07044003768
11	Spring Washer	R07044003769
12	Hexagon Bolt, M8 x 20mm	R07034003822
13	Hexagon Bolt, M8 x 15mm	R07034028746
14	Assy. Coil	
	MCK025A	R50029006231
	MCK030A	R50029006232
	MCK040/050A	R50029006233
15	Drain Pump Bracket	R50014028765
16	Drain Pump	R04139001614

No	Description	Part Number
17	Drain Pump Bush	R11014026614
18	Hexagon Bolt, M5 x 27mm	R07034028747
19	Drain Hose	R10029001615
20	Level Switch	R04069022966
21	Coil Support	R01024028602
22	Partition	R50014028766
23	Side Panel Front	R50013028767
24	Valve Plate	R01014028024
25	Drain Connector	R12014028769
26	Side Panel Back	R50013028771
27	Air Guide	R12033028773
28	Drain Pan	R50123028775
29	Fix Bracket Front	R50014028779
30	Fix Bracket Back	R50014028782
31	Fan Cover	R12010027359
32	Control Box	R50014033553
33	Drain Pipe	R50124025113
34	Hanger A	R01024037399
	Hanger B	R01024037400
	Hanger C	R01024037401
Parts Not in Diagram		
A	Control Module	R04089027262

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MCK-A PANEL

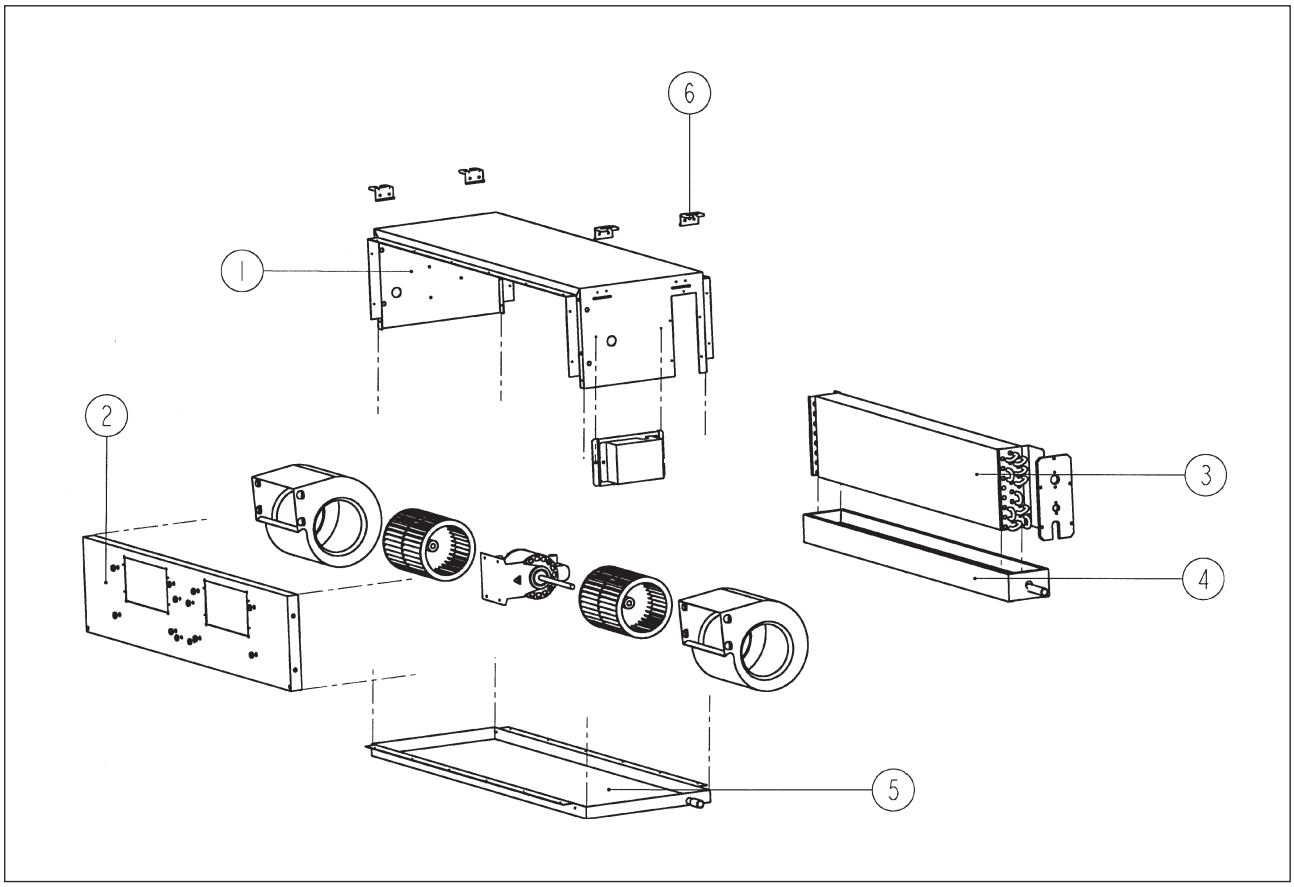


No	Description	Part Number
1	Front Frame Panel	R12010024616
2	Receiver Bracket	R12013028834
3	Discharge Housing A	R06083028837
4	Assy. Louver A	R50124072026
5	Discharge Housing B	R06083028843
6	Assy. Louver B	R50124073292
7	Discharge Housing D	R06083028846
8	Louver Bracket	R12014028670
9	Crank Shaft	R12014028671
10	Crank Connector	R12014028673
11	Crank Cross	R12014028669

No	Description	Part Number
12	Swing Motor	R03039001653
13	Swing Motor Bracket	R01024033167
14	Panel Cover	R12014028668
15	Fix Plate	R01024028051
16	Air Intake Grille	R12010021920
17	Grille Lock	R12014028674
18	Grille Lock Bracket	R12014028675
19	Air Filter	R03080021919
20	Air Swing Cap	R12014028672
Parts Not in Diagram		
A	Handset, Wireless G17	R04084103448

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MCC025C

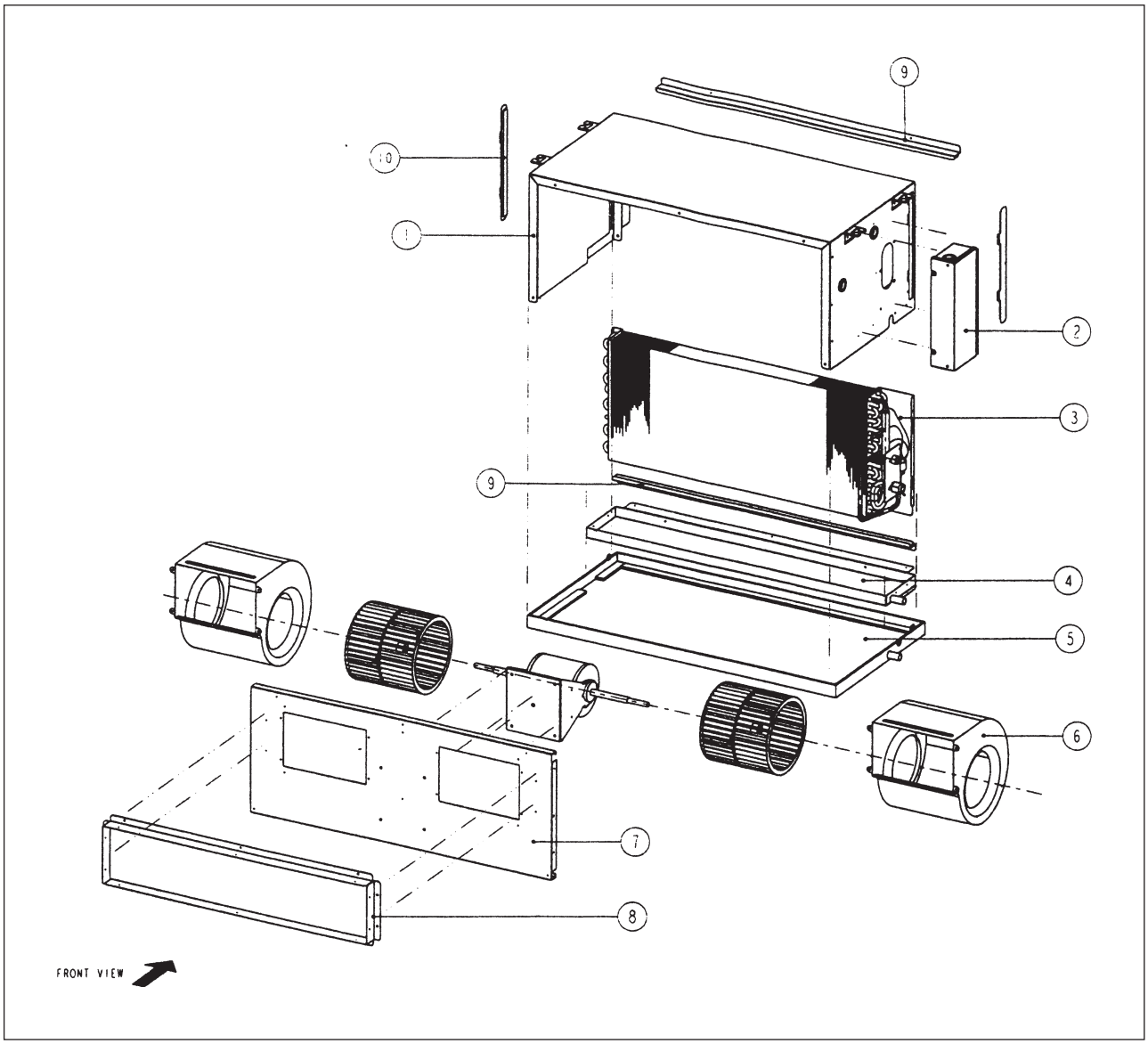


No	Description	Part Number
1	Cabinet	R01013032362
2	Fan Deck	R50014032629
3	Assy. Coil	R50024061753
4	Primary Drain Pan	R50063032369
5	Secondary Drain Pan	R50019009420
6	Hanger	R01014032372
Parts Not in Diagram		
A	Assy., Wheel & Housing - Left	R50039005356

No	Description	Part Number
B	Assy., Wheel & Housing - Right	R50039005355
C	Fan Motor	R03039004899
D	Air Filter	R03084037812
E	Assy., Drain Pipe Joint	R50094035451
F	Control Module	R04089028159
G	Handset, Wired SLM	R04089011809
H	Handset, Wired Netware 3	R04089023825

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MCC030/040C



Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MCC030/040C

No	Description	Part Number
1	Assy. Top Panel	
	MCC030C	R01014053420
	MCC040C	R01014053435
2	Assy. Control Box	
	MCC030C	R50044089633
	MCC040C	R50044086192
3	Assy. Coil	
	MCC030C	R50024053510
	MCC040C	R50024053511
4	Assy. Drain Pan (Small)	
	MCC030C	R50019015283
	MCC040C	R50019015287
5	Assy. Drain Pan (Big)	
	MCC030C	R50019015284
	MCC040C	R50015049389
6	Assy. Wheel & Housing - Left	R50034016257
	Assy. Wheel & Housing - Right	R50034016083
7	Panel, Blower	
	MCC030C	R50014040253
	MCC040C	R50014039926

No	Description	Part Number
8	Flange, Blower	R01014039130
9	Filter Rail, Cover	R01014039769
10	Filter Rail	
	MCC030C	R12014070627
	MCC040C	R12014070629
Parts Not in Diagram		
A	Hanger	R01014032372
B	Fan Motor	
	MCC030C	R03039014585
	MCC040C	R03039014586
C	Bracket, Motor	R01014045260
D	Support, Bracket Motor	R01014072554
E	Air Filter	
	MCC030C	R03084055531
	MCC040C	R03084055532
F	Control Module	R04089028159
G	Handset, Wired SLM	R04089011809
H	Handset, Wired Netware 3	R04089023825

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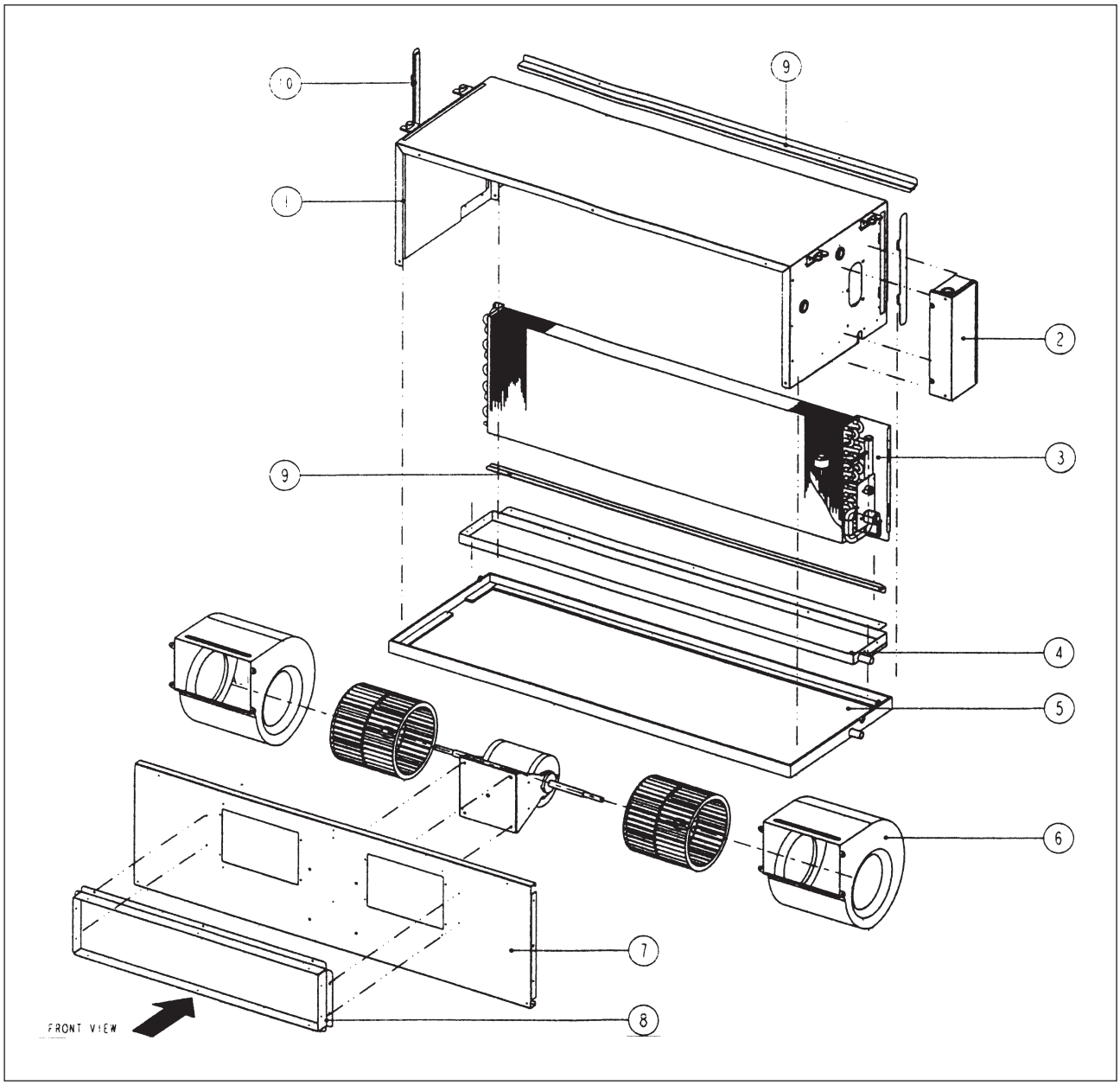
MODEL: MCC050/060C



Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

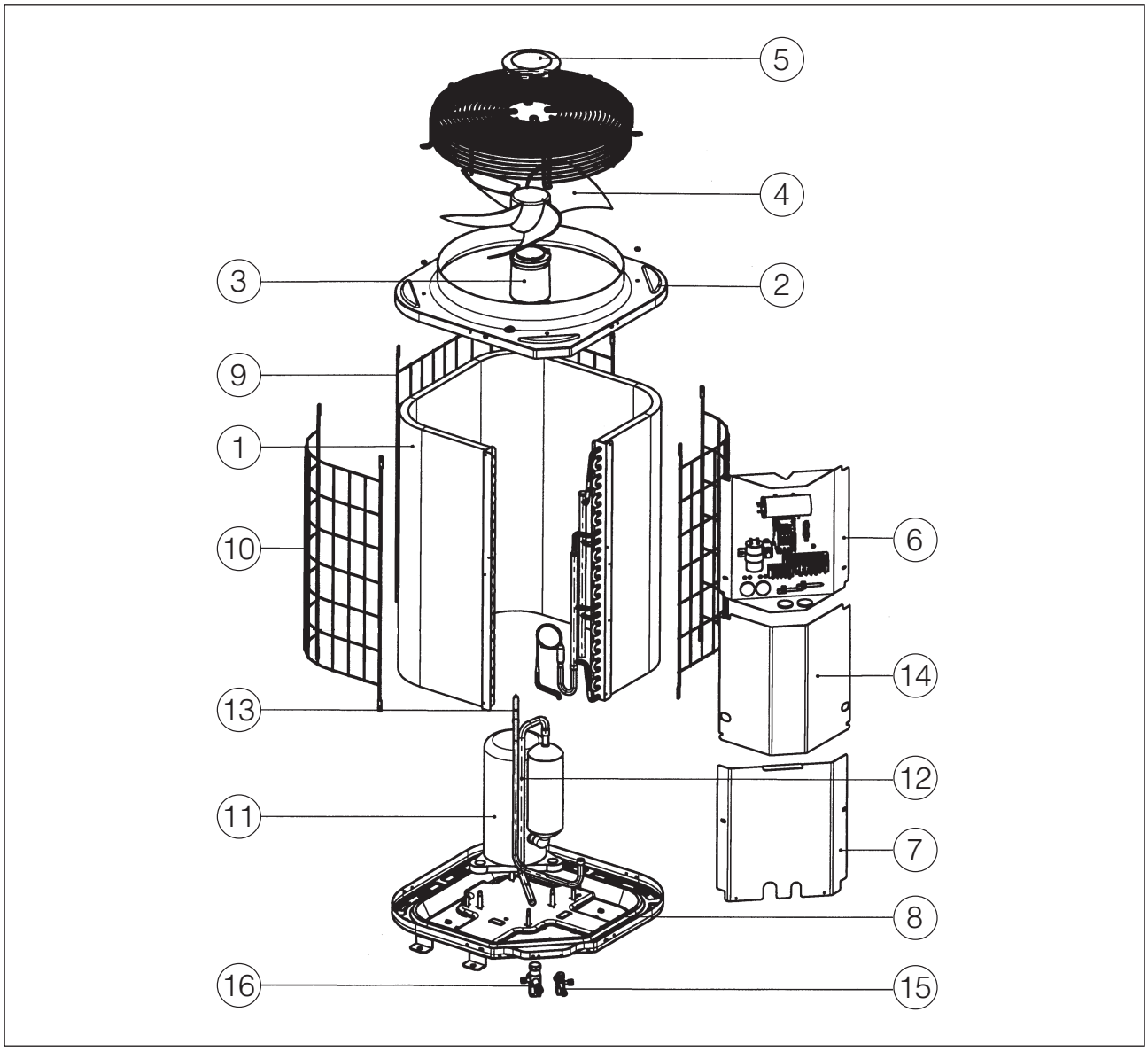
MODEL: MCC050/060C

No	Description	Part Number
1	Assy. Top Panel	
	MCC050C	R01014053446
	MCC060C	R01014053482
2	Assy. Control Box	
	MCC050C	R01014086154
	MCC060C	R50044088587
3	Assy. Coil	
	MCC050C	R50024071073
	MCC060C	R50024053513
4	Assy. Drain Pan (Small)	
	MCC050C	R50019015291
	MCC060C	R50019015295
5	Assy. Drain Pan (Big)	
	MCC050C	R50019015292
	MCC060C	R50019015296
6	Assy. Wheel & Housing - Left	R50034016258
	Assy. Wheel & Housing - Right	R50034016084
7	Panel, Blower	
	MCC050C	R50014039137
	MCC060C	R50014039022

No	Description	Part Number
8	Flange, Blower	R01014039130
9	Filter Rail, Cover	R01014039769
10	Filter Rail	
	MCC050C	R12014070630
	MCC060C	R12014070631
Parts Not in Diagram		
A	Hanger	R01014032372
B	Fan Motor	
	MCC050C	R03039014587
	MCC060C	R03039014588
C	Bracket, Motor	R01014045664
D	Support, Bracket Motor	R01014072555
E	Air Filter	
	MCC050C	R03084055533
	MCC060C	R03084055534
F	Control Module	R04089028159
G	Handset, Wired SLM	R04089011809
H	Handset, Wired Netware 3	R04089023825

Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MVCU025A



No	Description	Part Number
1	Assy. Coil	R50024065504
	Assy. Coil (Gold Fin)	R50029025772
2	Assy. Top Panel	R50014065082
3	Assy. Fan Motor	R50039029688
4	Fan Propeller	R03019018471
5	Cover, Fan	R12014062197
6	Assy. Control Box	R50044098437
7	Service Panel	R01014061699
8	Assy. Panel Base	R50014063343
9	Coil Guard, Middle	R01014061696
10	Coil Guard, Side	R01014061695

No	Description	Part Number
11	Compressor	R04019019930
12	Assy. Suction Tube	R50024063359
13	Discharge Tube	R02014062168
14	Control Box Cover	R01014061693
15	Liquid Valve 3/8”	R05019018449
16	Gas Valve 5/8”	R05019018451
Parts Not in Diagram		
A	Capacitor, Motor 3uF	R04029026757
B	Capacitor, Compressor 50uF	R04029026779

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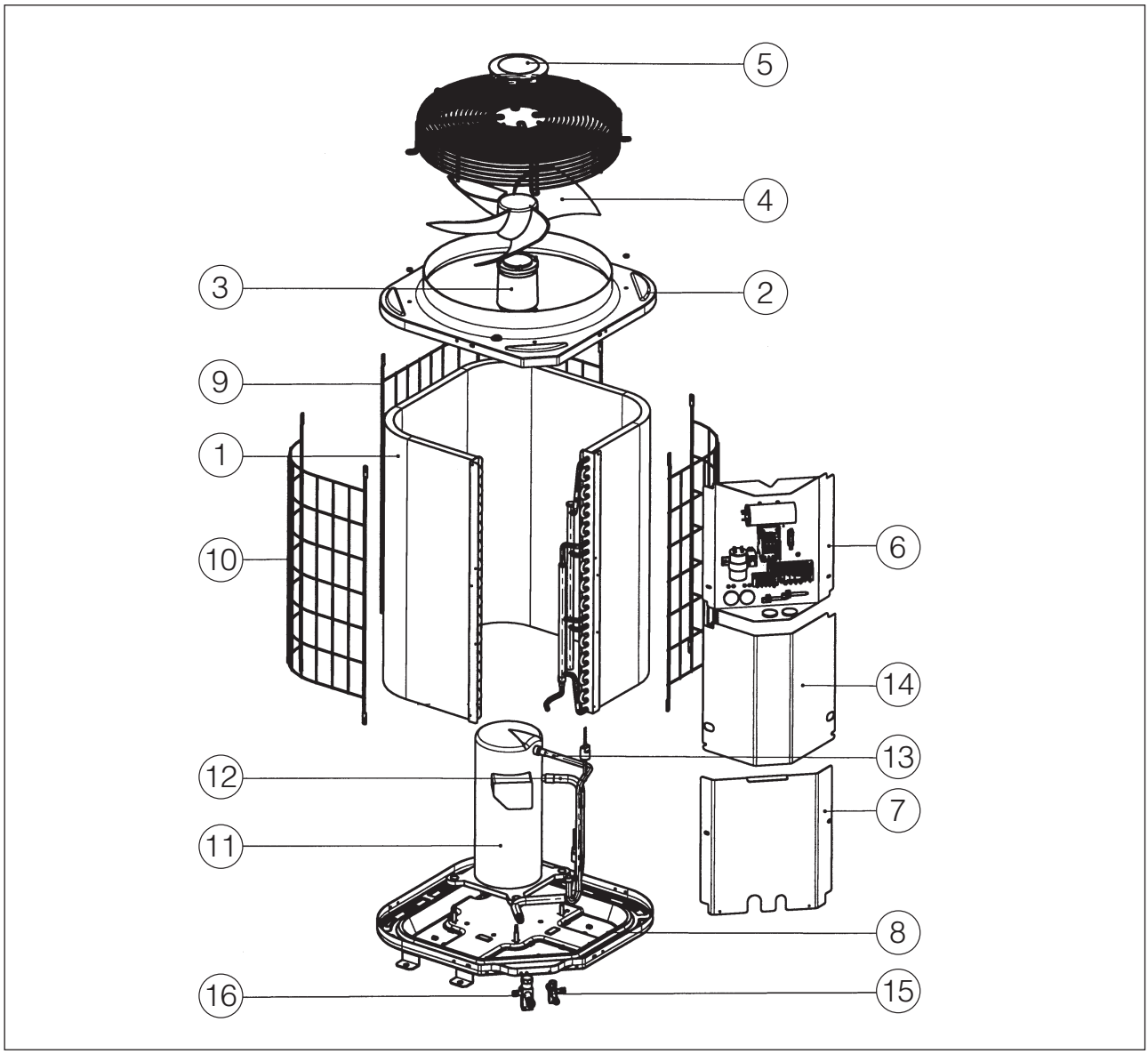
MODEL: MVCU030/035A



Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MVCU030/035A

No	Description	Part Number
1	Assy. Coil	
	MVCU030A	R50024062193
	MVCU035A	R50024066518
	Assy. Coil (Gold Fin)	
	MVCU030A	R50029025389
	MVCU035A	R50029025391
2	Assy. Top Panel	R50014065082
3	Assy. Fan Motor	
	MVCU030A	R50039029688
	MVCU035A	R50039029044
4	Fan Propeller	R03019018471
5	Cover, Fan	R12014062197
6	Assy. Control Box	
	MVCU030A	R50044065429
	MVCU035A	R50044065428
7	Service Panel	R01014061699
8	Assy. Panel Base	R50014063345
9	Coil Guard, Middle	R01014061696
10	Coil Guard, Side	R01014061695

No	Description	Part Number
11	Compressor	
	MVCU030A	R50049019889
	MVCU035A	R50049013462
12	Assy. Suction Tube	
	MVCU030A	R50024063362
	MVCU035A	R50024063357
13	Assy. Discharge Tube	
	MVCU030A	R50024063361
	MVCU035A	R50024063358
14	Control Box Cover	R01014061693
15	Liquid Valve 3/8”	R05019018449
16	Gas Valve	
	MVCU030A	R05019018451
	MVCU035A	R05019018447
Parts Not in Diagram		
A	Pressure Switch, 18PSI N/C	R04109015125
B	Pressure Switch, 426PSI N/C	R04109031314

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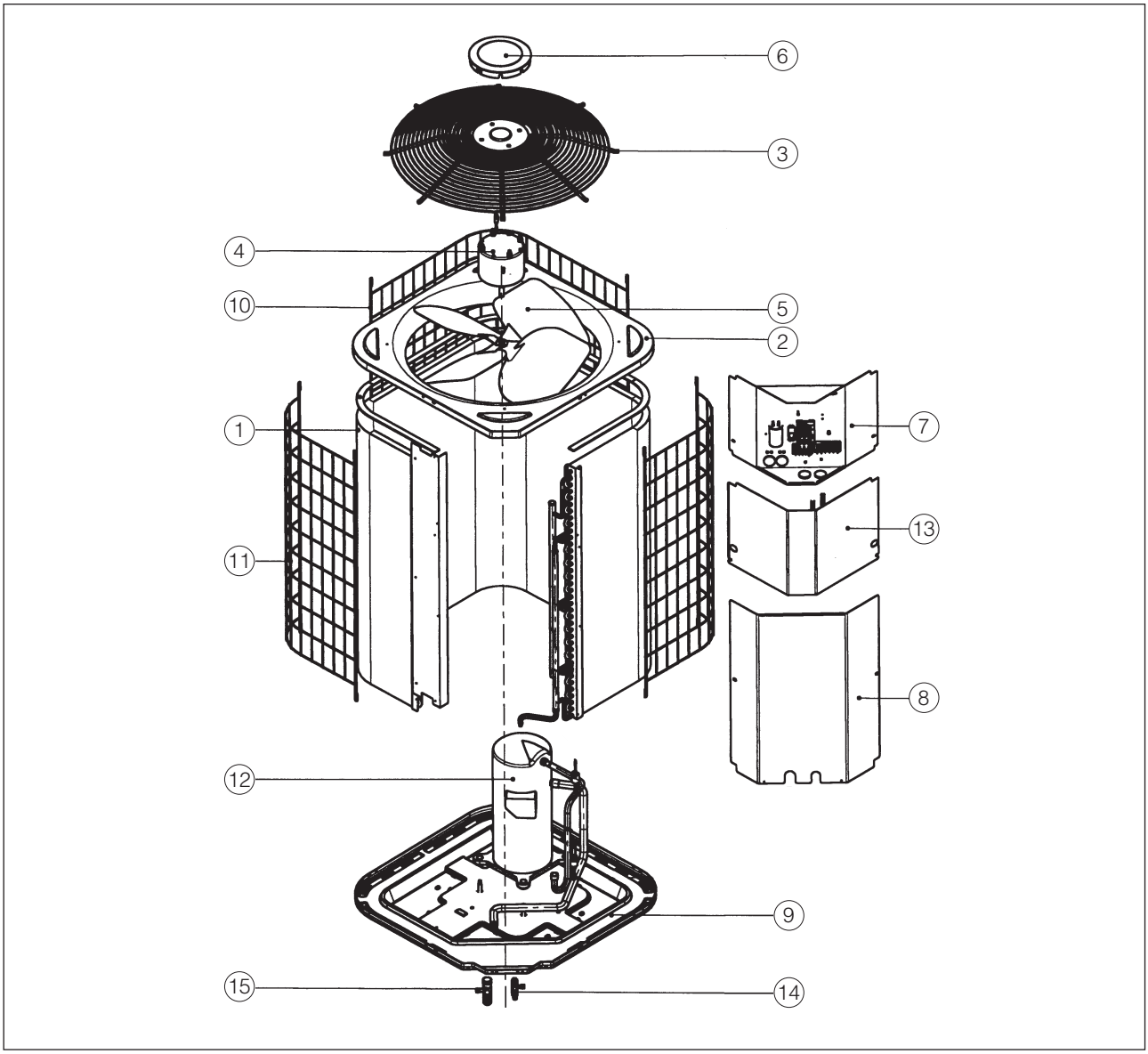
MODEL: MVCU040/050/060A



Note: All exploded view and part list are subjected to change by the manufacturer without prior notice

MODEL: MVCU040/050/060A

No	Description	Part Number
1	Assy. Coil	
	MVCU040A	R50024062115
	MVCU050/060A	R50024057546
	Assy. Coil (Gold Fin)	
	MVCU040A	R50029025393
	MVCU050/060A	R50029025633
2	Assy. Top Panel	R01014056756
3	Assy. Fan Guard	R50014056795
4	Fan Motor	
	MVCU040A	R03039018472
	MVCU050/060A	R03039018470
5	Fan Propeller	R03019018471
6	Cover, Fan	R12014059423
7	Assy. Control Box	
	MVCU040A	R50044062914
	MVCU050A	R50044062913
	MVCU060A	R50044062912
8	Service Panel	
	MVCU040A	R01014062118
	MVCU050/060A	R01014056761
9	Assy. Panel Base	R50014062328

No	Description	Part Number
10	Coil Guard, Middle	
	MVCU040A	R01014062121
	MVCU050/060A	R01014056763
11	Coil Guard, Side	
	MVCU040A	R01014062122
	MVCU050/060A	R01014056762
12	Compressor	
	MVCU040A	R50049013222
	MVCU050A	R50049013223
	MVCU060A	R50049004675
13	Control Box Cover	R01014056760
14	Liquid Valve	
	MVCU040/050A	R05019018449
	MVCU060A	R05019018450
15	Gas Valve	
	MVCU040/050A	R05019018447
	MVCU060A	R05019018448
Parts Not in Diagram		
A	Pressure Switch, 18PSI N/C	R04109015125
B	Pressure Switch, 426PSI N/C	R04109031314

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